DENON

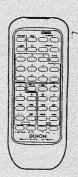
Hi-Fi CD AMP Tuner System

SERVICE MANUAL MODEL RCD-100

Ope Model

CD AMP TUNER





Note: The illustrations used here may differ slightly from the actual unit.

MAIN FEATURES

- RDS reception (FM only)
 RDS programs can be easily received (FM only).
- AM/FM 30-station random preset tuner
 Random presetting permits easy operation and will beconvenient for the increased number of FM stations in the future.
- Independent power amplifier designed for quality sound
 High quality 45 W per channel power amplifier with large speaker terminals.
- Super linear converter and high performance digital filter
 Denon's unique systems for preventing loss of CD sound quality permit excellent sound field reproduction.
- Easy-to-use remote control unit

BEFORE USING

Note the following points before using the RCD-100.

Moving the system

To prevent short-circuiting or damage of the connection cords, be sure to unplug the power cord and disconnect all connection cords before moving the system.

In addition, always remove CDs before moving the system. Failing to do so may result in scratched CDs.

- Before switching on the power
 - Check again that all connections are proper and that the connection cords are not damaged. Be sure to disconnect the power plug before disconnecting or connecting the connection cords.
- Hum may be produced if a TV set or another audio component is set near this system or their connection cords are nearby. If this happens, try changing the position of the equipment and connection cords.
- Do not move the system abruptly from a cold place to a warm place, since this may cause water droplets (condensation) to form in the equipment, preventing proper operation. If this happens, wait one hour before using the system.

Check that the following parts are included in the package aside from the main unit:

 ① Operating Instructions
 1
 ③ Remote Controller
 1

 ② FM Indoor Antenna
 1
 ⑤ R6P Batteries
 2

 ③ AM Loop Antenna
 1
 ⑥ AC Cord
 1

NIPPON COLUMBIA CO., LTD.

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Only discs with the mark at the right can be played on this system.



PACKING & ACCESSORIES PARTS LIST

Ref. No.	F	art No) .	Part Name	Remarks	Q'ty
1	RCD	100		CD AMP Tuner		1
2	505	0131	050	Cabinet Caver		1
3	503	9308	105	Cushion Ass'y		1
4	501	9297	003	Carton		1
§ 5	GEN	7842		Envelope Sub Ass'y		15
5-1	505	0283	018	:Poly Cover		(1)
5-2	511	9466	006	Inst Manual		(1)
5-3	399	9054	009	RM Control	RC-814	(1)
5-4	394	0040	004	:Battery(R6P/UM-3) Ass'y		(1)
5-5	395	0023	800	:FM Ant Ass'y	L=1.8 m	(1)
5-6	231	1914	003	Loop Antenna		(1)
Δ1-5-7	206	2108	003	:AC Conn.With Piug	L=1.8 m	(1)

SPECIFICATIONS

■ Receiver (UCD-100)

Tuner

Reception Frequency Range: FM: 87.50 MHz to 108.00 MHz AM: 522 kHz to 1611 kHz

Receiving Sensitivity: FM: 1.5 µV, 75 ohms (SN ratio 30 dB) AM: 20 µV (SN ratio 20 dB)

FM Stereo Separation: 40 dB (1 kHz)

 Amplifier Jacks:

Rated Output Power:

45 W + 45 W (1 kHz, 4 ohm) 6.3 mm headphone jack

Bass Adjustment: 100 Hz ±8 dB Treble Adjustment: 10 kHz ± 8 dB

Loudness control:

100 Hz/10 kHz +6 dB/ +3 dB Jacks:

MD/AUX: Input jacks, recording output jacks Tape: Input jacks, recording output jacks

44.1 kHz

Power Supply: AC 230 V, 50 Hz

Power Consumption: 110W

CD Player

Wow and Flutter:

Below measurable limits (±0.001% W. Peak)

Sampling Frequency: Light Source:

Semiconductor

Dimensions (max.): 434(w)×94(H)×342(D)mm (17-5/64"×3-45/64"×13-30/64")

Weight: 7.5kg(16@bs 8oz)

■ Remote Control Unit (RC-814)

Type:

Number of Buttons:

Dimensions (max.): 52.5(w)×150(H)×18.3(D)mm (2-1/16"×5-8/9"×12/16") (including batteries)

Infrared pulse

Weight: 100g(Approx.4.6oz)

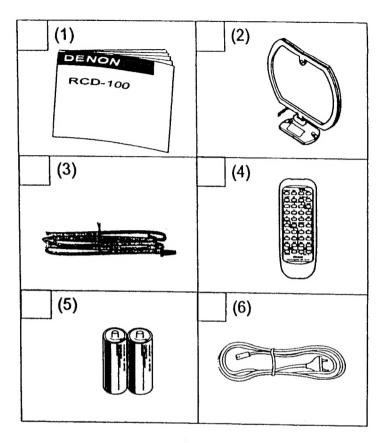
Maximum dimensions include controls, jacks, and covers.

(W) = width, (H) = height, (D) = depth

• For improvement purposes, specifications and functions are subject to change without advanced notice.

Please c	heck the following items are included with the main unit in
the carlo	•
(1)	Operating Instructions 1
(2)	AM Loop Antenna1
(3)	FM Antenna 1
(4)	Remote Control RC-8141
(5)	Batteries R6 (AA) 2
(6)	AC Cord1
Vergewi	ssern Sie sich, deß folgende Telle vollständig im Lieferum
fang ent	helten sind:
(1)	Bedienungsanleitung 1
(2)	MW-Rehmenantenne1
(3)	UKW-Antenne 1
(4)	Fernbedienung RC-814 1
(5)	Trockenzell-Batterien Fi6 (AA) 2
(6)	Netzkabel 1
Veuillez	vérifier que les articles sulvants sont bien joints à l'appare
principe	dens le carion:
(1)	Mode d'emploi 1
(2)	Antenne-cadre AM 1
(3)	Antenne FM 1
(4)	Télécommende RC-814
(5)	Piles de format R6 (AA) 2

Verlfique	que los artículos siguientes hayan sido suministrados con
la unidad	principal:
(1)	Instrucciones de operación 1
(2)	Antena AM de cuadro 1
(3)	Antena de FM 1
(4)	Unidad de control remoto RC-814 1
(5)	Pilas secas R6 (AA) 2
(6)	Cable de alimentación 1
Controle	er of de volgende accessoires bij het hoofdtoestel in de
doos zijn	verpakt:
(1)	Gebruiksaanwijzing1
(2)	AM-raamantenne 1
(3)	FM-antenne
(4)	Afstandsbediening RC-814 1
(5)	R6 (AA) droge cel batterij
(6)	Netsnoer1
	era att följende tillbehör her packats ner i kartongen ans med huvudenheten:
(1)	Bruksarvisning
(2)	Ramantenn för AM-bruk
(3)	FM-entenn
(4)	Flärrkontroll RC-814
(5)	R6 (AA) torrbetteri
(6)	Nätkabeln1
Verifiqu	e se os items que se seguem estão incluídos na calxa de
	om a unidade principal
(1)	Instruções de funcionamento 1
(2)	Antena de guadro AM
(3)	Antena FM1
(4)	Telecomando RC-814
(5)	Pilhas R6 (AA) 2
(6)	Cabo de ailmentação 1



O ENGLISH

DECLARATION OF CONFORMITY

We declare under our sole responsibility that this product, to which this declaration relates, is in conformity with the following standards:

EN60065, EN55013, EN55020, EN60555-2 and EN60555-3.

Following the provisions of 73/23/EEC, 89/336/EEC and 93/68/EEC Directive.

DEUTSCH

• ÜBEREINSTIMMUNGSERKLÄRUNG

Wie erktären unter unserer Verantwortung, daß dieses Produkt, auf das sich diese Erklärung bezieht, den folgenden Standards entspricht:

EN60065, EN55013, EN55020, EN60555-2 und EN60555-3.

Entspricht den Verordnungen der Richtlinien 73/23/EEC, 89/336/EEC und 93/68/EEC.

FRANÇAIS

• DECLARATION DE CONFORMITÉ

Nous déclarons sous notre seule responsabilité que l'appareil, auquel se réfère cette déclaration, est conforme aux standards suivants:

EN60065, EN55013, EN55020, EN60555-2 et EN60555-3.

D'après les dispositions des directives 73/23/EEC, 89/336/EEC et 93/68/EEC.

ITALIANO

DICHIARAZIONE DI CONFORMITÀ

Dichiariamo con piena responsabilità che questo prodotto, al quale la nostra dichiarazione si riferisce, è conforme alle seguenti normative:

EN60065, EN55013, EN55020, EN60555-2 e EN60555-3.

In conformità con le condizioni delle direttive 73/23/EEC, 89/336/EEC e 93/68/EEC.

Questo prodotto è conforme al D.M. 28/08/95 N 548.

ESPAÑOL

• DECLARACIÓN DE CONFORMIDAD

Declaramos bajo nuestra exclusiva responsabilidad que este producto al que hace referencia esta declaración, está conforme con los siguientes estandartes:

EN60065, EN55013, EN55020, EN60555-2 y EN60555-3.

Conforme con las provisiones de las directivas 73/23/EEC, 89/336/EEC y 93/68/EEC.

NEDERLANDS

EENVORMIGHEIDSVERKLARING

Wij verklaren uitsluitend op onze verantwoordelijkheid dat dit produkt, waarop deze verklaring betrekking heeft, in overeenstemming is met de volgende normen:

EN60065, EN55013, EN55020, EN60555-2 en EN60555-3.

Volgens de bepalingen van de richtlijnen 73/23/EEC, 89/336/EEC en 93/68/EEC.

SVENSKA

ÖVERENSSTÄMMELSESINTYG

Härmed intygas helt på eget ansvar att denna produkt, vilken detta intyg avser, uppfyller följande standarder:

EN60065, EN55013, EN55020, EN60555-2 och EN60555-3.

Enligt stadgama i direktiv 73/23/EEC, 89/336/EEC och 93/68/EEC.

PORTUGUÊS

DECLARAÇÃO DE CONFORMIDADE

Declaramos sob nossa exclusiva responsabilidade que este produto, ao qual esta declaração corresponde, está em conformidade com as seguintes normas:

EN60065, EN55013, EN55020, EN60555-2 e EN60555-3.

De acordo com o establecido nas directivas 73/23/EEC, 89/336/EEC e 93/68/EEC.

PRECAUTIONS FOR INSTALLATION

Install RCD-100 always horizontally. To ensure sufficient ventilation, leave a space of at least 10 cm between the front, sides and back of the unit and walls or other object which may obstruct ventilation.

VORKEHRUNGEN FÜR DIE AUFSTELLUNG

Stellen Sie den RCD-100 stets waagerecht auf. Um eine ausreichende Lüftung zu gewährleisten, muß ein Zwischenraum von mindestens 10 cm auf der Vorder- und Rückseite sowie an den Seiten zwischen dem Gerät und einer Wand bzw. anderen Objekten vorhanden sein.

PRECAUTIONS D'INSTALLATION

Le RCD-100 doit toujours être installé horizontalement. Pour permettre une ventilation suffisante, vous devez laisser un espace libre d'au moins 10 cm entre les faces avant, latérales et arrière de l'appareil et les murs ou tout autre objet qui pourrait gêner l'aération.

PRECAUZIONI PER L'INSTALLAZIONE

Installare il RCD-100 sempre in posizione orizzontale. Per avere una sufficiente ventilazione, lasciare uno spazio di almeno 10 cm tra la parte anteriore, posteriore i lati dell'unità e le pareti o eventuali altri oggetti che potrebbero ostacolare la ventilazione.

PRECAUCIONES PARA LA INSTALACION

Instale siempre el RCD-100 en posición horizontal. Para garantizar una ventilación suficiente, deje un espacio de al menos 10 cm entre los lados anterior, posterior y laterales del equipo y las paredes u otros objetos que pudieran obstruir la ventilación.

VOORZORGSMAATREGELEN VOOR INSTALLATIE

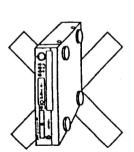
De RCD-100 attiid horizontaal plaatsen. Om voldoende ventilatie te garanderen dient u ten minste 10 centimeter ruimte open te laten tussen de voorkant. zijkanten, achterkant en de muur of andere voorwerpen die de luchttoevoer zouden kunnen blokkeren.

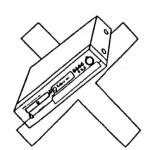
FÖRBEREDELSER FÖR INSTALLATION

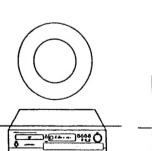
Installera altiid RCD-100 horisontelit. Ventilationen ska vara god. Lämna ett utrymme på minst 10 cmmellan enhetens sidor och väggen och eventuella föremål som kan hindra ventilationen.

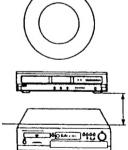
PRECAUÇÕES DURANTE A INSTALAÇÃO

Instale sempre o RCD-100 em posição horizontal. Para assegurar a ventilação adequada, deixe um espaço de pelo menos 10 cm entre a frente, os lados e a parte de trás da unidade e paredes ou outros objectos que possam obstruir a ventilação.

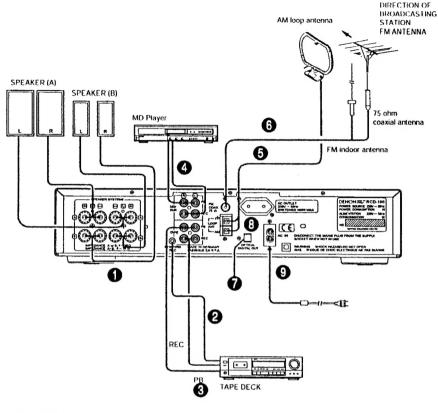








- 10 cm or greater
- 10 cm oder mehr 10 cm ou plus
- 10 cm o più
- 10 cm o más
- 10 cm of meer
- 10 cm eller mer



REAR PANEL

SPEAKER SYSTEMS (Speaker terminals)

Two pairs of speakers A and B can be connected to these terminals.

2 SYNCHRO Jack

To make a synchronized recording, this jack must be connected to the SYNCHRO jack of the deck with a connection cord. (See page 16 for connections.)

TAPE

Tape decks can be connected for full use including playing or copying.

MD/AUX

MD or Video DIsc may be connected here.

5 AM ANT (AM antenna terminals)

Connect the attached AM loop antenna. (Refer to page 8 for connections).

Connect to this terminal when a medium wave outdoor antenna is used.

FM ANT (FM antenna terminals)

75-ohm coaxial cable can be connected to this terminal. For antenna connecting procedure, see ANTENNA INSTALLATION.

7 DIGITAL OUT (OPTICAL)

This jack outputs digital data.

AC OUTLET (AC power outlet)

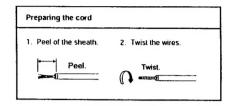
This AC outlet is controlled by the power switch. (Except units sold in U.K. and Eire)

AC inlet

Connect the included AC cord here.

SPEAKER CONNECTION

Confirm polarity (+,-) and left and right channels (L, R). Connect the speaker pairs to the SPEAKER terminals on the back panel. Connections must be made with power cord disconnected.



ANTENNA INSTALLATION

FM ANTENNA

The supplied indoor FM antenna can be used inside wooden houses for receiving local FM stations and other strong FM signals. Stretch out the end of the antenna and mount the antenna on the wall or ceiling where optimum reception is achieved. An indoor FM antenna may not consistently ensure stable reception, due to environment changes. In such cases, the indoor FM antenna should only be used temporarily until an outdoor FM antenna has been installed.

When connecting an outdoor FM antenna, the use of 75 ohm coaxial cable (3C-2V, 6C-2V) is strongly recommended.

AM ANTENNA

Attach the supplied AM loop antenna even when using an outdoor AM antenna.

Connect the leads to the AM and GND terminals.

Also use the AM terminals for connecting an outdoor AM antenna (when making such a connection do not disconnect the AM loop antenna).

Adjust the loop antenna to obtain optimum reception. Where broadcast stations are distant and only weak signals are received or where signals are blocked, it is best to install an outdoor AM antenna.

Notes:

Do not connect two FM antennas simultaneously.

to the antenna terminals

- Even if an external AM antenna is used, do not disconnect the AM loop antenna.
- Make sure AM toop antenna lead terminals do not touch metal parts of the panel.

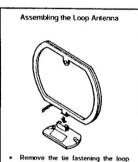
Notes on Connection

- Do not plug the power cord into the AC wall outlet until all connections have been completed.
- Make sure channels are correctly connected. Connect Left channels to Left channels and Right channels to Right channels. Follow the color markings of plugs and terminals to make sure mistakes are not made.
- Connect all pin-plugs securely, pushing them completely into the jacks incomplete connections will cause noise generation.
- Binding the connection cables to power cords, or running such cables close to power supply transformers will cause humming or noise, and should thus be avoided.

Connecting the front speaker terminals

- 1. Loosen by turning counterclockwise.
- 2. Insert the cord and tighten by turning clockwise.





antenna's lead and connect the lead

CAUTION

Protective Circuit

This set is equipped with a high speed protective circuit. This circuit protects the internal circuitry from damage due to large currents flowing when the speaker jacks are not completely connected or when an output is generated by a short circuit.

This protective circuit's operation cuts off the output to the speakers. In such a case, be sure to turn the power to the set off and check the connections to the speakers. Then turn the power on again. After muting for several seconds, the set will operate normally.

DESIGNATIONS AND FUNCTIONS OF PANEL CONTROLS (REFER TO PAGE 3.)

FRONT PANEL

RECEIVER

ON/STANDBY switch

When pressed once, the power is turned on and the display lights.

DISPLAY button

Use this switch to toggle between the function and time display. For example, when the function is set to the tuner, the display switches between the reception frequency and

When RDS stations or stations for which you have written characters yourself and stored in the memory are tuned in. press this button once to display the frequency, then press again to display the time.

MEMORY button

This button is used when presetting FM and AM stations.

6 TIMER button

This button is used to set the timer.

STANDBY button

Press this button to cause the timer to operate at the set time. When the timer has been set, pressing this button will light up the display's timer standby indicator ((9), and pressing it again will switch off the standby indicator. The timer will not function when the standby indicator is off.

♠ STEREO/MONO

MONO:

(FM Stereo mute/mono) button

This button will not function when receiving AM broadcasts.

(For FM reception)

Use this mode to receive FM broadcasts in AUTO:

(mule)

("AUTO" appears on the display.) The muting circuit is activated to cut the hiss noise between

stations

In this mode, FM broadcasts are received in monaural, regardless of whether they are broadcast in monaural or stereo.

Set to the mono mode if there is much noise in the stereo mute mode (with "AUTO" displayed) or if the signals are weak.

TUNING UP and DOWN buttons

Use these buttons to tune in FM or AM stations and when setting the time and timer.

BASS control

Use this control to adjust the bass.

TREBLE control

Use this control to adjust the treble

BALANCE control

Use this control to adjust the balance of the volume between the left and right channels. The volume is the same for the left and right channels when the control is at the center.

(A) LOUDNESS (Loudness ON/OFF switch)

At low volumes, the human ear is less sensitive to low (BASS) and high (TREBLE) frequencies. Press this switch to compensate for this deficiency when listening at low volume

(R) SPEAKERS (Speaker selector switches)

These switches are used to select speaker system A and B. No sound is heard through the speakers when both switches are reset to the (......) position.

PHONES jack

Connect a pair of headphones (sold separately) to this jack for private listening.

VOLUME control

This control adjusts the overall volume. Turn clockwise () to increase the volume, and counterclockwise () to decrease it.

(D) PRESET (Preset station buttons)

These buttons are used for storing stations or recalling stations which have been preset. Using the PTY button you can preset a total of 30 FM or AM stations into preset channels.

Once a radio has been memorized, the same station can later be tuned in instantly simply by recalling the corresponding preset channel with PRESET UP or DOWN button.

RDS button

Use this button to automatically tune to stations using the radio data system.

BAND (FM/AM) button

With each press, the band is switched in the order of FM, AM, FM and so on.

@ FUNCTION button

Use this button to select the program source.

The selection changes in the order of TUNER, CD, TAPE, and MD/AUX.

NOTE: The auto function serves to automatically switch the function when the operation buttons are pressed on

Tuner: BAND button

CD: Play button (►)

2 DISPLAY

The display indicates a wide variety of information including: functions and MUTE of the amplifier, frequency and reception conditions of the tuner and number of tracks and time of the

Remote control sensor

The remote control unit is pointed and operated toward this sensor

- CAUTION:

Whenever the ON/STANDBY switch is in the STANDBY position, the unit is still connected on AC line voltage.

RDS (Radio Data System) When the RDS button is pressed, a station is searched for and automatically tuned in, the "RDS" indicator lights and the station's name is displayed on the frequency display.

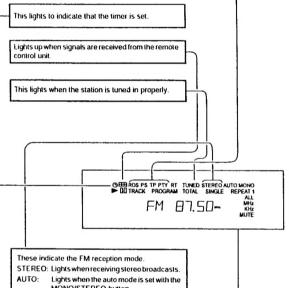
PTY (Program Type)

This indicator lights when the type of RDS program is specified.

TP (Traffic Program)

"TP" lights when an RDS traffic information station is received

DISPLAY



MONO/STEREO button.

MONO: Lights when the mono mode is set with the MONO/STEREO button.

The reception band (AM or FM), frequency, RDS program and service name, the time and the timer are displayed here.

NOTE: -

The " (5" of the timer standby display will not light up unless the current time and the timer have been set.

9

@ REPEAT button

Press this button for repeat play.

Automatic Search Forward button (▶)

- Press this button to move the pickup forward to the beginning of the next track. Press again to move ahead to other tracks.
- By pressing the button a number of times, the pickup will advance the corresponding number of tracks.
- Press this button to move the pickup forward to the beginning of the desired track.

(I) Automatic Search Reverse button (I◀)

- Press this button to return the pickup to the beginning of the present track. Press again to return to other tracks.
- By pressing the button a number of times, the pickup will move back the corresponding number of tracks.
- Press this button to move the pickup back to the beginning of the desired track.

Press this button to stop CD play.

PLAY button

Press this button to start playing the disc. If pressed when the disc tray is open, the disc tray closes and playback begins. Pressing this button in the standby mode automatically switches on the power and plays the disc.

Press this button to open the disc tray. Press once to open the disc tray forward, then press again to close the disc tray. This button also operates in the standby mode.

② Disc tray

Compact discs are loaded to the disc tray.

CD PLAYER DISPLAY

Track number display Time display W is displayed when the disc data cannot be read DD is displayed when the disc data cannot be read properly. properly. When a disc is loaded: When a disc is loaded: . The total number of tracks is displayed in the stop · The elapsed playing time is displayed in the stop mode. mode . The elapsed time for the track currently playing is The track number is displayed in the play and prodisplayed in the play and pause modes. oram modes. · The elapsed time for the programmed tracks is]] or [[is displayed when the innermost or displayed in the program mode. outermost section of the disc is reached in the manual search mode. PROGRAM lights during the programmed selection mode. Offenos Ps tip Pty Rt 1 Juned Stereo Auto Mono → 00 Track Program Total Single Repeat 1 → 00 Track Program Tota ▶ PLAY lights when the disc is playing, and

PAUSE lights when in the pause mode.

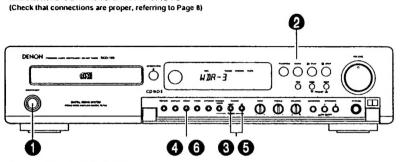
The indicators switch as follows when the REPEAT button is pressed in the play mode:

REPEAT 1: REPEAT 1 (single track repeat) The repeated track number lights on the music calendar.

REPEAT ALL: REPEAT ALL (all tracks repeat) The track numbers of the tracks on the disc light.

Third press: No display

LISTENING TO RADIO BROADCASTS



Example: Tuning to 87.50 MHz, FM

1	Set the VOLUME control to the minimum position, then press the ON/STANDBY button of the receiver.	ONSTANDBY	
2	Select the FM band with the BAND button.	AMFM QETI	Set to FM. FM → 90.00 ••
3	Use the UP and DOWN buttons to set the frequency to 87.50 MHz.	TUNING DOWN UP	V is junts up when the station NAME THE STATE OF THE S

Presetting FM and AM Stations

Example: Presetting the (currently tuned) FM 87.50 MHz to preset number 3

4	Press the MEMO button. "P — — M" flashes for 10 seconds.	MEMO Chr	FM -P - M-
5	Use the TUNING UP and DOWN buttons to call up the number to which you want to preset the station. Or, directly press the number buttons on the remote control unit. The preset number will flash.	TUNING DOWN UP	FM -P D M-
6	Press the MEMO button while "P03M" is flashing.	MEMO	FM P 3

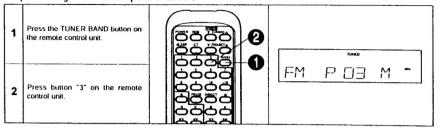
Up to 30 FM and AM stations can be preset at random using this procedure.

Note: The character writing mode is set if the MEMORY button is pressed in for over 3 seconds. Auto Tuning

- When the TUNING buttons are pressed, the frequency changes in steps of 50 kHz for FM, 9 kHz for AM.
- If the TUNING UP or DOWN button is held in for more than 0.5 seconds, the frequency continues to change when the button is
 released. The next station is tuned in automatically and the tuning stops there. The auto tuning might not stop when a weak signal.

Listening to Preset Stations

Example: Listening to the FM station preset at number 3



FM Stereo Reception

 When the MONO/STEREO button is pressed (which lights the AUTO indicators) and an FM stereo broadcast is received, the STEREO indicator lights and the station is received in stereo. If the MONO indicator is lit by pressing the MONO/STEREO button, the STEREO indicator goes off and the station is received in monaural.

Notes on Presetting

- . When an FM station is preset, the auto or monaural mode is also set, so check the display before presetting the station.
- If a station is preset to a number at which another station has previously been preset, the previous station is cleared and the new station is preset.
- If the power cord is unplugged, the preset memory is not cleared immediately, but will be cleared if the cord is left unplugged over a long period. Should this happen, preset the stations again.

Receiving RDS broadcasts (FM only)

1	Press the BAND button and set the FM band.	FM 87.50 -
2	Press the RDS button once.	Flashes
3	Press the TUNING UP or DOWN buton.	Flashes
4	The station is tuned in.	"RDS" lights after 5 seconds of flashing. Station name Once the station is tuned in, "RDS" flashes for 5 second and the program service name is displayed. When another station is desired, press the UP or DOW button of TUNING while "RDS" is flashing and start the tuning.

RCD

Programs			
NEWS	(News)	VARIE]	(Varied)
AFFAIRS	(Current Affairs)	POP M	(Pop Music)
INFO	(Information)	ROCK M	(Rock Music)
SPORT	(Sport)	MOR M	(M.O.R. Music)
EJUCATE	(Education)	LIGHT M	(Light Classics)
1)RAMA	(Drama)	ELASSIES	(Serious Classics
CULTURE	(Culture)	OTHER M	(Other Music)
SCIENCE	(Science)	ALARM	(Alarm)

NOTE: ALARM cannot be selected during the PTY search operation.

TP Search

1	Press the RDS button 3 times.	Flashes (T F)
2	Press the TUNING UP or DOWN button of TUNING.	Flashes FM 87.50
3	Broadcast reception.	"TP" and "RDS" light after 5 seconds of flashing. Name of broadcast station Once the station is tuned in, "RDS" and "TP" flash for 5 seconds and the program service name is displayed. When the UP or DOWN button of TUNING is pressed while "RDS" and "TP" are flashing, tuning is started again.

- NOTE: ----

The RCD 100 is designed so that RDS broadcasts can be received. In some countries and areas, however, no RDS broadcasts are offered.

- "PTY" is a code which identifies the type of program.
- "TP" is a code which identifies the station providing the traffic information.
- "CT" is a signal providing time data in one minute units.
- Some stations which provide RDS broadcasts do not broadcast CT signals, in which case
 the time display cannot be corrected by pressing the CT button on the remote control unit.

RDS Emergency Alarm

"ALARM" will flash on the display when the unit receives the Emergency Programme Type Code (PTY31) from an RDS station. This feature may not operate property if the signal from the RDS station is too weak or is subjected to interference. It is not possible to select the "ALARM" display from the PTY search mode.

Writing Characters

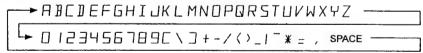
The RCD-100 includes a function for writing characters.

Example: Writing the characters "MY RADIO" for the station at FM 107.70 MHz and storing this at preset channel

1	Use the BAND button and the TUNING UP and DOWN buttons to display FM 107.70 MHz.	FM 107.70 -
2	Press the MEMO button for at least 3 seconds so that "P — — M" flashes on the display.	FM -P M-
3	Use the TUNING UP and DOWN buttons to select preset channel 5.	FM -F 5 M-
4	Press the MEMO button. The "" begins to flash.	Flashes
5	Use the TUNING UP and DOWN buttons to select the character "M", then press the PRESET UP button on the remote control unit. The "—" stops flashing, and the "M" in the second place starts flashing.	M SIVE Flashes
6	Use the TUNING UP and DOWN buttons to select the character "Y", then press the PRESET UP button on the remote control unit.	MY SUZ Flashes
7	Repeat this procedure to write "MY RADIO", then press the MEMO button. "PRESET" stops flashing and the character writing mode is cancelled.	MY RADIO

The characters which can be written are shown below.

- The characters change in the direction of the arrow when the PRESET UP button is pressd, and in the opposite direction when the PRESET DOWN button is pressed.
- · The character sequence starts over from A each time a character is set.



NOTES:

- . The cursor can be moved to correct a character by pressing the PRESET button during the character writing mode.
- . Characters can also be written in the same way when in the AM mode.

7 USING THE TIMER

Setting the Timer

- · Be sure to set the current time.
- Regular timer: The power can be switched on and off once every day at the same time. (Wake-up music)
- Sleep timer: The power can be set to turn off in up to 60 minutes in steps of 10 minutes using the remote control unit. (Bodtime music)

Be sure to preset stations before setting the timer.

- Refer to "Presetting FM and AM Stations" on Page 11.
- . Turn the standby switch off when not using the timer.
- . It is not possible to set the timer on during CD-mode.

Power Failure

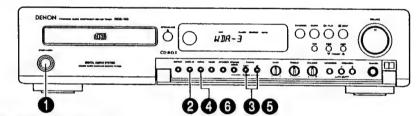
Should a power failure occur or if the power cord becomes unplugged from the power outlet, " \mathfrak{MW} " will flash on the time display. If this happens, reset the current time.

(Reset the current time and timer settings. If 'DDD' was displayed, also reset the stations preset on the tuner.)

The standby mark starts flashing if there is a power failure or the power cord is unplugged while the standby mark is lif. If this happens, reset the time and the timer. (If the display reads 'DBD', also reset the timer's preset channels.)

To make the standby mark stop flashing, press the TIMER button, then press the TIMER button while "FUNC" is displayed.

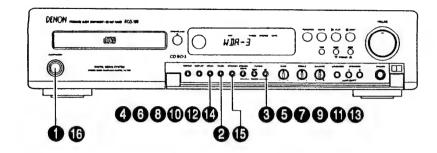
Setting the Current Time (A 24-hour clock display is used.)



Example: Setting to 19:30 (7:30 p.m.)

	Press the ON/STANDBY button of	ON/STANDBY	
1	the receiver.	3	
2	Press the DISPLAY button for 3 seconds or longer.	DISPLAY	The hour's place flashes. (All places flash if the time has already been set.)
3	Set the hours with the UP and DOWN buttons.	TUNING DOWN UP	The set places flashes.
4	Press the MEMO button.	MEMO	The minutes' places flash.
5	Set the minutes with the UP and DOWN buttons.	TUNING DOWN UP	The set places flash.
6	Press the MEMO button at the sound of a time signal. The time display lights steadily and the clock starts keeping the time.	MEMO	The display light steadity and the clock starts to count from 0 seconds.

(Preset the FM and AM stations in advance)



Example: Setting the limer to turn on at 12:35 and off at 12:56.
90.00 MHz FM is being received on preset number "1".
87.50 MHz FM is set to preset number "3".

2	Press the ON/STANDBY button. Press the TIMER button.	ONUSTANDBY TIMER	TIMER
3	Press the UP and DOWN buttons to diplay "TUNER".	TUNING DOWN UP	FUNCTION
4	Press the MEMO button.	мемо	TUNER
5	Use the UP and DOWN buttons to set the preset number 3.	TUNING DOWN UP	FM - P Flashes
6	Press the MEMO button.	MEMO	FM - P = Flashes
7	Use the UP and DOWN buttons to set the hour at which the timer is to switch on.	TUNING DOWN UP	Flashes
8	Press the MEMO button.	мемо	Flashes

9	Use the UP and DOWN buttons to set the minutes at which the timer is to switch on.	TUNING DOWN UP	ON 12+35-
10	Press the MEMO button.	мемо	Flashes
11	Use the UP and DOWN buttons to set the hour at which the timer is to switch off.	TUNING DOWN UP	off -)2:00
12	Press the MEMO button.	MEMO	Flashes —
13	Use the UP and DOWN buttons to set the minutes at which the timer is to switch off.	TUNING DOWN UP	off 12-55-
14	Press the MEMO button.	MEMO	Flashes — FM 90.00 —
15	Press the STANDBY button.	YBANATS	Lights up. (See NOTE)
16	Press the ON/STANDBY button.	ONUSTANDBY	The illumination goes off and the current time is displayed.

- When the STANDBY button is pressed and the "O" mark is lit, the timer will function at the same times each day.
- To switch off the timer, press the STANDBY button and turn off the " mark.

The timer standby mark * 🕒 * will not light unless the current timer has been set. Should this be the case, set the current time, then press the STANDBY button.

1) When there is an irregularity in the contents of the display or in the operation, unplug the power cord from the power outlet, then, while pressing down both the DOWN button of TUNING and the MEMORY button at the same time, plug the power cord into the power outlet again.

All conditions will return to their initial settings and the display will appear normal. It will now be necessary to reset the presets, current time, and the timer setting time.

To enable remote control operation of this system, the AC power is always supplied to the system. Even when the POWER button has been switched off, the display of the tuner will continue to be lit dimity.

Example 1: Waking up to the music of a compact disc.

1 EVERYDAY TIMER

1	ONSTANDBY	OPEN / CLOSE	OPEN / CLOSE					
	Press the receiver's → Pres ON/STANDBY button OP to to switch on the power. to o	e compact Press the OPEN/CLOSE button again to close the tray.						
2	Press the receiver's TIMER button.	TIMER	TIMER					
3	Press the UP and DOWN buttons of the receiver to display "CD".	TUNING DOWN UP	FUNETION					
4	Follow steps 6 to 16 under "Setting the Timer" on Page 14.							

Checking the Timer Settings

To check the timer settings, turn on the receiver's ON/STANDBY button, press the TIMER button. The timer start mode, reception band, preset number, on time, and off time are displayed in order each time the MEMORY button is pressed. One more press returns the display to the reception frequency.

Changing the Timer Settings

When the timer setting operation is repeated, the previous settings are deleted and the new settings are set.

Note about the Set Timer

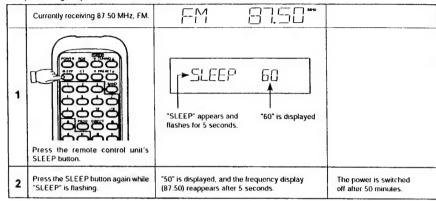
If the set time of the timer is reached while the power is on, the timer settings will take over and there will be a switch to the function that has been set on the timer.

Cancelling the Timer

Press the STANDBY button and the " (mark will go off.

Setting the Sleep Timer

(Use the remote control unit for these operations.)
Example: Setting the power to switch off in 50 minutes.



- . If the sleep timer and regular timer settings overlap, the sleep timer is given priority.
- Do not press the STANDBY button after the power has been switched on with the timer. If this is done, the timer will not function properly.
- If the same time is set for the on time and off time, the power will not be switched on even when the "STANDBY" indicator is lit.
 If the time is set for an AMor EM station and the on time of the time is reached while list opinion to prother station the time is set.
- If the timer is set for an AMor FM station and the on time of the timer is reached while listening to another station, the tuner switches
 to the station which was set with the timer.
- . When the SLEEP button is pressed and the "(1) " mark flashes, the sleep timer will operate at the same time.

Cancelling the Sleep Timer

- . To cancel the timer while it is operating in the sleep mode, press the SLEEP button.
- · Press the SLEEP button repeatedly until the power turns off. This cancels the sleep timer.

- Press the OPEN/CLOSE button (▲) once to open the disc tray, once again to close it.
- The disc tray can also be closed be pressing the play (►) button.

When this is done, playback automatically starts from the first track on the disc (or if the tracks are programmed, the first programmed track).

- Load the disc with the label side facing up, being careful not to touch the disc surface.
- Load the disc with the disc tray guide at the center of the disc tray.
- To play on 8 cm disc, place the disc in the sunken part at the center of the disc tray.
- When the disc tray is closed, the disc turns automatically for several seconds, and the number of tracks and total playing time appear
 on the display.



Only discs with this mark can be played.

 For CDVs, only the audio part is played (the video part is not played).

Disc	Remarks
CD	
CDV	Only the audio part is played.
CD single (8 cm)	

When removing the disc from its case:

As shown in the diagram, graspy the disc along the edges, gently press down on the hole in the middle with a finger, and lift the disc. It should come out easily.

■ When setting the disc in the disc tray:

Always set the disc with thelabel side facing up. (Compact discs can only be played on one side). For 8 cm CDs, set the disc in the sunken part in the middle of the tray.



Handling the Disc Tray

Do not switch off the power or push or pull the disc tray when it is moving, since this may damage it.

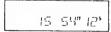
If the cord of a set of headphones, etc., gets caught in the disc tray when it is closed, press the OPEN/CLOSE button (A) again.

 Never set objects other than CDs in the disc tray, as this can cause damage.



Precautions:

- If no disc has been loaded or the disc has been placed upside down, all indicators will light.
- When the information on the disc cannot be read correctly, for example due to dust or dirt on the disc, the indicators will read as shown below. Nothing will be shown on the TRACK NO. and TIME displays, and it may take quite a while to read the disc.





Normal display

Improper display

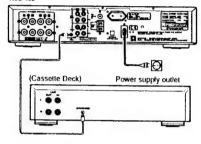
SYNCHRO Jack Connections

Connect the SYNCHRO jack with a DENON cassette deck which is equipped with a SYNCHRO jack, then make a synchronized recording. Use the connection cord supplied with the cassette deck.

To make use of this function, also connect the output jacks and make the settings so that a recording can be made from the RCD-100 player to the cassette deck.

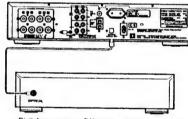
The remote control signal receive indicator of the display will blink during synchronized play.

RCD-100



Connecting the Digital Output Jack (OPTICAL)
Use an OPTICAL cable to connect the digital output jack
(OPTICAL) of the RCD-100 to the digital input jack (OPTICAL)
on a MD or D/A converter unit, available in stores.

RCD-100



Digital processor or D/A converter unit (Amplifier)

OPENING AND CLOSING THE DISC HOLDER AND LOADING A DISC _____

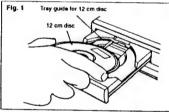
RCD-100

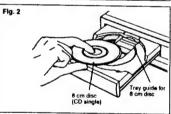
Opening and closing the disc holder (This operation only works while the power is on.)

- Press the ON/STANDBY switch to turn on the power.
- 2. Press the OPEN/CLOSE button (▲).

How to load a disc

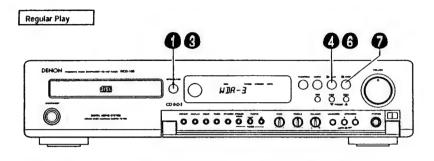
- Make sure the disc holder is completely open
- Hold the disc by the edges and place it on the disc tray. (Do not touch the signal surface, i.e., the glossy side.)
- When using 12 cm diameter discs, make sure the outer edge matches the tray guide circumference (Fig. 1), and when using CD singles (8 cm diameter), match the outer edge with the inner tray guide circumference (Fig. 2).
- Press the OPEN/CLOSE button (♠) to close the disc holder.
- When the disc holder is closed, the disc is read and after a few seconds the number of tracks and total playing time are displayed on the TRACK NO. and TIME displays, respectively.
- When the disc holder is open and a disc is loaded, you may also press the play (► PLAY) or pause (♣ PAUSE) button to close the disc holder. (If the play button (► PLAY) is pressed, playback will start immediately upon the disc contents having been read.)





Caution

- If your finger should get caught in the disc holder when it closes, press the OPEN/CLOSE button (♠).
- Do not place any foreign objects on the disc tray, and do not place more than one disc on the tray at a time. Otherwise malfunction may occur.
- Do not push in the disc tray manually when the power is off as this may cause malfunction and damage the CD player.



Example: Playing a CD with 15 tracks and a total playing time of 62 minutes 03 seconds, starting from track 1

1	Press the ON/STANDBY button of the receiver, then press the OPEN/CLOSE button.	OPEN/CLOSE	1RACK
2	Set the CD in the disc tray. Refer to Page 16.	The disc tray opens	The display appears several seconds after the disc tray closes.
3	Press the OPEN/CLOSE button.	OPEN/CLOSE The disc tray closes	15 62" 03"
4	Press the PLAY button.	CD play starts	► TRACK

To stop play temporarily: (Perform this operation from the remote control unit only.)

5	Press the PAUSE bulton.		PLAY goes off and "I PAUSE" appears. CD play is paused at the point the button is pressed.
Tore	sume CD play:		
6	Press the PLAY button.	PLAY	"II PAUSE" goes off and " ➤ PLAY" appears. CD play resumes from the point the pause button was presed.
Tost	top CD play:		
7	Press the STOP button.	■ STOP	

NOTE: • "CC" is displayed on the track number section of the display for several seconds after the disc is set, while the data on the number of tracks, playing time, etc., is being read from the disc. After this, the number of tracks and total playing time appear.

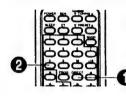
62° 03°

Various CD Play Functions

(Insert the disc before performing the following operations.)

Playing Certain Tracks Example: Playing the 8th track

Perform this operation from the remote control unit.



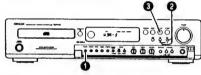
- 1 Press the DIRECT button.
- 2 Press track button "8". "TRACK 8" appears on the display, and the 8th track begins playing.
- . When the end of the track is reached, play continues on to the next track.

- DIRECT SELECTION
- · For track numbers of 11 and higher. for example 15, press +10 and 5 For track numbers of 20 and higher. for example 23, press [+10] [+10] and 3. For track number 20, press +10 and [10]

Playing 1 Track Repeatedly

1 TRACK REPEAT

ALL TRACKS REPEAT



- 1 Press the REPEAT button once.
- ② Press the [or) button, and select the desired track.
- ③ Press the play button (►) to start play.

- When the specified track finishes playing, the pickup returns to the beginning of that track and play is repeated.
- If the REPEAT button is pressed once during play, the track will be played repeatedly.
- If the REPEAT button is pressed once during programmed play, the track will be played repeatedly.
- If the REPEAT button is pressed once while the disc is stopped, the "REPEAT 1" indicator lights and the 1 track repeat play mode is set.

O Playing All Tracks Repeatedly D D D O O

- 1 Press the REPEAT button twice.
- Press the play button (>) to start play.

- When the last track finishes playing, the pickup returns to the
- If the REPEAT button is pressed twice during play, the disc will be played repeatedly.

first track of the disc and play is repeated.

- If the REPEAT button is pressed twice during programmed play, the program will be played repeatedly.
- If the REPEAT button is pressed twice while the disc is stopped, the "REPEAT ALL" indicator lights and the all tracks repeat play mode is set.

Playing a Specific Section Repeatedly

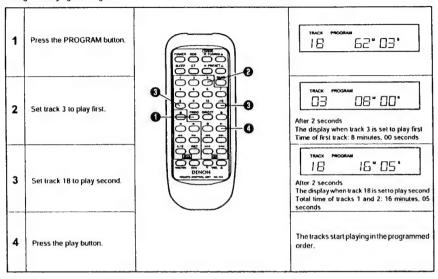
SECTION REPEAT

Example: The CD has a total of 15 tracks

•	(1) Press the REPEAT button during CD play. TRACK HEPEAT I	*REPEAT 1* lights up, and only that track is played repeatedly, and that track number lights.
1st time	(2) Press the REPEAT button before CD play. TRACK REPEAT I	"REPEAT 1" lights up, and the total number of tracks lights, and then ① the first track is repeated by pressing the play button ② when play is started by direct selection from the remote control or with the ► or H€ button, only those selected tracks are played repeatedly.
2nd time	Press the REPEAT button before CD play or during CD play. REPEAT TRACK REPEAT A	*REPEAT ALL* lights up, and the track numbers contained on the disc light up on the music calendar, and all tracks are played repeatedly.

Example: Programming track 3 to play first, track 18 to play second, on a CD with 18 tracks and a total playing time of 62 minutes, 3 seconds.

Setting and Playing the Program



- . The numbers of the programmed tracks go off once the tracks are played.
- "--- M --- S" appears on the display, if a track number of 21 or higher is set in the program.
- . When a program is set during CD play after a direct selection, the track currently playing is set as the first track in the program.
- . Up to 20 tracks of your choice from among track numbers 1 through 99 can be programmed with this CD player.
- If you attempt to set a track number that is greater than the number of tracks on the disc, that track number will not be displayed
 when the buttons are pressed.
- Programming is also possible when the disc tray is open. In this case, track numbers greater than the number of tracks on the disc can be programmed, but these are ignored when the disc is played.
- The entire program is cleared when the disc tray is opened (by pressing the <u>A</u> button).
- Other operations possible during programmed play:
 - The quick search, pause, skip monitor, and other operations can be used during programmed play. To move to the beginning of the previous track with the quick search operation, press ightharpoonup
 ig
- Perform programming and canceling in the stop mode.
- Programming is also possible in the same way using the PROG button on the CD player. (In this case, use the ►►/►► button to select the track number, the PROG button as the memory button. In other words, first press the PROG button, next press the ►►/►► button to select the track number, then press the PROG button again to set the track in the memory. For the second track as well, press the ►►/►► button then the PROG button.)

Moving to the Next Track During CD Play
(Perform this operation from the remote control unit.)

QUICK SEARCH

8

0000 0000 0000

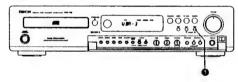
- ① Press the auto search forward button (>>)
- Each press of the auto search forward button (➤>) moves the pickup to the beginning of following tracks.

QUICK SEARCH

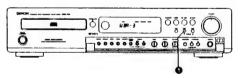
- ① Press the auto search backward button (---).
- Each press of the auto search backward button (4
 old) during the search operation moves the pickup to the beginning of previous tracks.
- 3 Searching for Tracks While Listening to the Sound

SKIP MONITOR

- Use this to skip through a disc listening to the sound at high speed.
 This function is convenient when searching for a certain section within a long track.
- . Use the skip monitor function to find the desired position, then release the search button to start regular playback from there.
- 1 Forward skip monitor



- The track number and elapsed playing time of the track being skipped through are indicated on the display.
- If the end of the last track on the disc is reached while pressing the search button, (JJ) appears on the display and the skip monitor operation stops. To resume CD play, press the search backward button (III) until (JJ) switches to the track number, then perform a different operation.
- During CD play, press and hold in the forward search button
) to skip forward while listening to the sound.
- 2 Backward skip monitor



- The track number and elapsed playing time of the track being skipped through are indicated on the display.
- If the beginning of the first track on the disc is reached while pressing the search button, (££) appears on the display and the skip monitor operation stops. To resume CD play, press the search forward button (▶•) until (££) switches to the track number, then perform a different operation.
- ① During CD play, press and hold in the backward search button (f◄) to skip backward while listening to the sound.

If the forward or backward skip button is pressed during programmed CD play and released at a track which has not been programmed, the next programmed track will be played once that track has been played to the end,

12 REMOTE CONTROL UNIT

Cautions on Use

- 1. The RCD-100 is supplied with a remote control unit (RC-814) for system control.
- 2. Replace the batteries with new ones when the transmission distance possible with the remote control unit shortens.
- 3. For longer battery life, remove the batteries when not using the remote control unit for long periods.
- When replacing batteries, use two new batteries. Never use an old battery with a new one.
- 5. Do not use two different types of batteries.
- Do not heat batteries or take them apart.
- Be careful that the remote control sensor is not exposed to direct sunlight or strong light from lighting fixtures.
- The remote control sensor is located on the receiver. Point the remote control unit at the sensor, then press the buttons for the desired operation.
- Operate the remote control unit within the range illustrated in

Inserting the Batteries

(1) Open the battery case lid on the back of the remote control



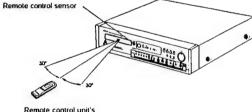
(2) Insert the two batteries (R6/AA) in the proper direction.



(3) Set the battery case lid back in place.



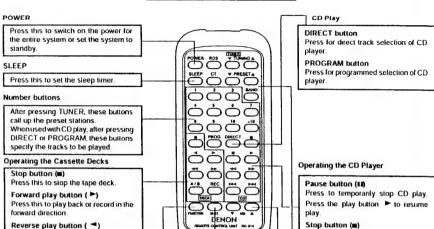
EIII appears at the upper left corner of the receiver display when a signal is received.



Remote control unit's transmission window

- The remote control unit can be used at a distance of about 7 meters from the remote control sensor, but this distance will be shorter if there are obstacles in the way or if the remote control is operated from an angle.
- 10. Do not press buttons on the remote control unit and on the main unit at the same time. Doing so will lead to a malfunction.
- 11. If IIII appears on the receiver display due to incident light even though the remote control unit has not been operated, it is best to move the set or place it in a different direction. Even if this happens, it will not cause a malfunction with remote control unit.
- 12. When adjusting the volume continuously with the remote control unit, the volume adjustment will stop if the remote control unit is moved away from the remote control sensor. Should this happen, press the button again to continue changing the volume.

Button Names and Functions



Stop button (m) Press to stop CD play.

Play button (►) Press to start CD play.

Manual search backward button (**) Manual search forward button (►+)

Press these to quickly move backward or forward.

Backward skip monitor button (144) Press during CD play to go back to the beginning of that track. Press the button again within 0.5 seconds to go back to the beginning of the previous track.

Forward skip monitor button (1) Press during CD play to go forward to the beginning of the next track. Press the button again to go forward to the beginning of the track two tracks ahead.

FUNCTION (input switching) button MITTE VOLUME

Switches the function TUNER, CD. TAPE and MD/AUX.

Press this to select the deck to be

Press this to play back or record in the

To set the recording mode when in the

stop mode, press this button, then press

either the " or the " " button.

When pressed during the recording or recording pause mode, a blank section

of approximately 5 seconds is created

on the tape, after which the deck is set

to the recording pause mode.

Press this to rewind the tape.

Fast-forward button (►►)

Press this to forward the tape.

Rewind button (*4)

A/B button

operated.

TUNER

reverse direction.

(recording button)

REC button

Press this button for -20 dB sound. Press again to return to the original setting.

Adjusts the volume. Press ♥ to lower the volume, and A to raise it.

· CT (Clock Time) button

When the FM band has been set, a single press of this button will cause the clock display to appear for 2 seconds. Pressing the button again while the clock is displayed, enables the clock to be matched to the time of the RDS broadcast time service

· Some stations which provide RDS broadcasts do not broadcast CT signals, in which case the time display cannot be corrected by pressing the CT button.

Press this button to listen to the preset stations.

BAND button

Use this to select the FM or AM band. When this button and number button is pressed in the standby condition, the power is automatically switched on.

TUNING buttons

Use these to tune in FM or AM stations.

PRESET buttons

Use these to select preset stations.

When this button is pressed in the standby condition, the power is automatically switched on.

• RDS (Radio Data System) button

This button is used for the RDS search, PTY search and TP search operations.

19

13 IMPORTANT INFORMATION

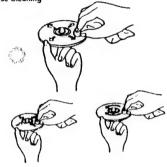
Head Cleaning

After the cassette deck has been used for a while, powder from the tapes and dirt adhere to the head and lower the sound quality, Use a head cleaning cassette tape to clean.

- NOTE: -

Some of the cleaning sets on the market have a strong polishing effect which can damage the head.

Disc Cleaning



Never use the following to clean discs:

- · Solvents such as benzene or alcohol
- Cleaners containing abrasives
- · Record sprays or cleaners
- Anti-static products

Head Demagnetizing

The heads become magnetized after the deck has been used over a long period of time or if the heads are exposed to a magnetic field. This results in noise and reduced treble. In addition, there may be a reduction of the treble range of recorded tapes as well as noise produced on these tapes. When the heads become magnetized, use one of the cassette tape head demagnetizers (erasers) available on the market to demagnetize

· For details, read the operating instructions of the demag-

Dust, fingerprints, or spittle on the disc can cause noise or

If the disc is dirty or if the player does not work properly, clean the disc as follows

- Hold the disc as shown in the diagram, with the signal surface facing up (and the labelled side facing down).
- Using a soft cloth, wipe the disc gently from the inside straight towards the edges (as shown by the arrows).
- Do not wipe from the edges towards the center, or around the disc as you would wipe records.
- Do not use hard cloths or rub the disc forcefully, since the signal surface is susceptible to scratches.

14 SPECIFICATIONS

Receiver • Tunes

> FM: 87.50 MHz to 108.00 MHz Reception Frequency Range:

> > AM: 522 kHz to 1611 kHz

FM: 1.5 uV. 75 ohms (SN ratio 30 dB) Receiving Sensitivity:

AM: 20 μV (SN ratio 20 dB)

FM Stereo Separation: 40 dB (1 kHz)

Amplifier

45 W + 45 W (1 kHz, 4 ohm) Rated Output Power:

Jacks: 6.3 mm headphone jack

Bass Adjustment: 100 Hz +8 dB 10 kHz ±8 dB Treble Adjustment:

100 Hz/10 kHz +6dB/+3dB Loudness control:

Jacks:

MD/AUX: Input jacks, recording output jacks

TAPE: input jacks, recording output jacks 434 (W) x 94 (H) x 342 (D) mm (17-5/64" x 3-45/64" x 13-30/64")

Dimensions (max.): Weight: 7.5 kg (16 lbs 8 oz)

Power Supply: AC 230 V, 50 Hz

Power Consumption: 110 W

CD Player

Wow and Flutter: Below measurable limits (±0.001 % W. Peak)

Sampling Frequency: 44.1 kHz Light Source: Semiconductor

Remote Control Unit (RC-814)

Type: Infrared pulse

Number of Buttons:

Dimensions (max.): 525 (W) x 150 (H) x 18,3 (D) mm (2-1/16" x 5-8/9" x 12/16")

Weight: 100 g (Approx. 3,5 oz) (including batteries)

Maximum dimensions include controls, jacks, and covers.

(W) = width, (H) = height, (D) = depth

· For improvement purposes, specifications and functions are subject to change without advanced notice.

15 TROUBLESHOOTING

- 1. Check that the connections are proper.

 Check that you are operating the system according to the instructions in the manual.
 Check the following table if the system does not seem to be working properly.

If the problem is not solved after checking those points carefully, the system may be malfunctioning. Switch off the power and contact your store of purchase.

	Symptom	Cause	Measures	Pag
	Power does not come on when ON/STANDBY button pressed	Power cord not plugged into outlet.	Plug cord into outlet properly.	8
Common	No sound produced from speakers.	VOLUME control set to minimum. Headphones are plugged in. Speaker cables not connected to speaker	Turn VOLUME control clockwise () Disconnect headphones. Connect speaker cables properly.	9
		terminais. The Relay is affected by clicking noise at intervals.	Short-circuit with connection cord near speaker terminal. Check connection cord again.	8
	Treble not produced. Orientation of sound field not clear.	Speaker poliuritiesh (+ and -) not matched.	Connect speaker cables properly.	8
	Source other than the desired one is heard.	Function selector button not set properly.	Set to desired function.	9
	Hissing noise heard during FM reception.	Antenna not pointed in proper direction. Signals weak	Change direction of antenna. Install outdoor antenna.	8
Receiver	Hissing or scratchy noise heard during AM reception.	Noise from TV, stc., or interference from other stations.	Turn off TV. Change position of loop antenna. Install outdoor antenna.	
Œ	Hum noise heard during AM reception.	Signals coming over power cord are mod- ulated by power source frequency.	Plug in cord in opposite direction. Install outdoor antenna.	8
	Disc loaded but total number of tracks not displayed.	Disc loaded upside-down. Disc dirty. Non-standard disc loaded.	Reload disc, Clean disc, Replace with standard disc.	18 20 16
CD Player	Operation not performed when buttons pressed, or playback stops in middle of track.	Disc loaded upside-down. Foreign object in disc holder. Disc dirty. Disc scratched.	Reload disc. Remove disc and remove foreign object. Clean disc. Replace with non-scratched disc.	11 11 21
	Sound skipe.	Dust, fingerprints, or spittle on disc. Disc scratched. Player set in shaky, unstable place.	Clean disc. Replace with non-ecratched disc. Set player in stable place.	2

Normal operation may not be possible if there is dirt or other substances on the surface of the internal objective lens or sensor.

These parts must be cleaned periodically depending on the place of installation.

For details, contact your store of purchase.

Dew (Condensation) Phenomenon

Dew (water droplets) may form on the lens of the internal optical system or on the disc, or on the rotating parts of the tape deck in situations such as the following:

- · Soon after a heater is put on.
- . When the set is placed in a steamy or damp room.
- . When the set is moved from a cold place to a warm room.

Avoid using ultrasonic humidifiers nearby.

If ultrasonic humidifiers are used nearby, the calcium, etc., included in the water may be scattered into the air, causing white dust to accumulate on the surface of the objective lens or sensor, resulting in improper operation.

When Condensation Forms

The signals of the disc may not be read and this product will not operate properly. To remove the condensation, take out the disc and switch on the power. The condensation will evaporate within 1 hour and the set will operate normally.

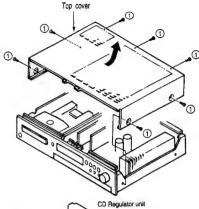
This system consists of precision components using microprocessors. Avoid using it in places where there is much external noise. If used is such places, the system may not operate properly, but this is not a problem with the system. If the system does not operate properly, try performing the desired operation again.

21

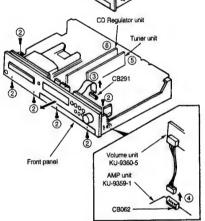
DISASSEMBLY PROCEDURESTS (Follow these procedures in reverse order to reassemble.)

1. Removing the top cover and front panel

① Remove the seven screws from the top cover.



- 2 Remove the six screws from the front panel.
- 3 Disconnect the CB291 connector from the main unit.
- ④ Disconnect the CB032, CB041 and CB062 connectors from the main unit.
- ⑤ Disconnect the CB052 connector from the tuner unit.
- (6) Disconnect the CB081 and CB091 connectors from the CD unit.



2. Removing the circuit boards

Volume Unit (KU-9360-5)

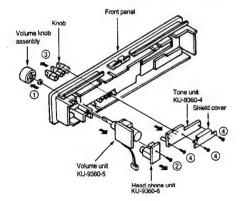
(1) Remove the volume knob and nut from the front panel.

Headphone Unit (KU-9360-6)

② Remove the screw from the headphone unit.

Tone Unit (KU-9360-4)

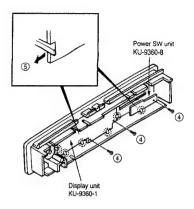
- 3 Remove the knob from the front panel.
- Remove the three screws from the tone unit.



Display Unit (KU-9360-1)

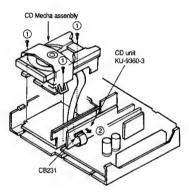
Power SW Unit (KU-9360-8)

- ④ Remove the three screws from the display and power switch units.
- ⑤ Detach the six hooks from the display and power switch units.



2. Removal of the CD Mechanism Unit

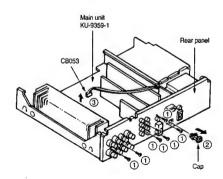
- ① Remove the three screws from the CD mechanism unit.
- ② Disconnect the CB034 and CB231 connectors from the CD unit.



CD & Regulator Unit (KU-9360-3)

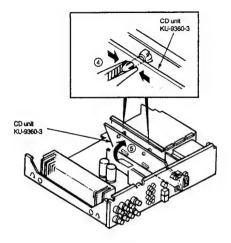
AMP Unit (KU-9359-1)

- ① Remove the seven screws from the rear panel.
- 2 Remove the cap from the CD & regulator unit.
- 3 Disconnect the CB053 connector from the amplifier unit.



RCD-100

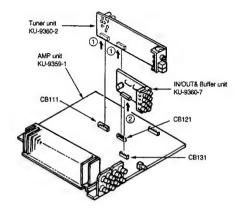
- @ Remove the two holders from the CD unit.
- S Remove the CD unit in the direction of the arrow.



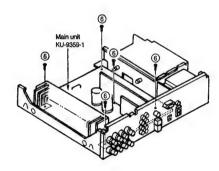
Tuner Unit (KU-9360-2)

Input & Buffer Unit (KU-9360-7)

- Remove the tuner unit from the CB111 and CB121 connectors
 connected to the main unit, in the direction of the arrow.
- ② Remove the audio unit from the CB131 connector connected to the main unit, in the direction of the arrow.

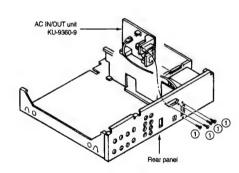


6 Remove the five screws from the main unit.

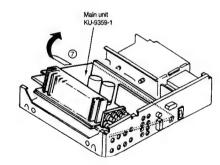


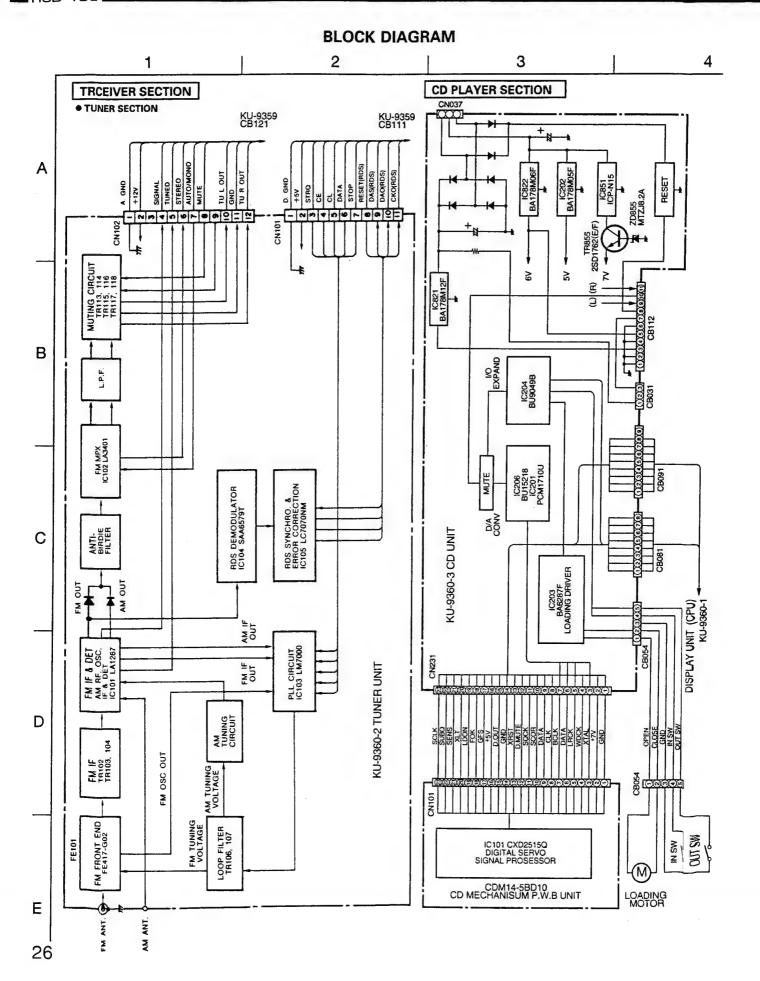
AC IN/OUT unit (KU-9360-8)

① Remove the four screws from the rear panel.



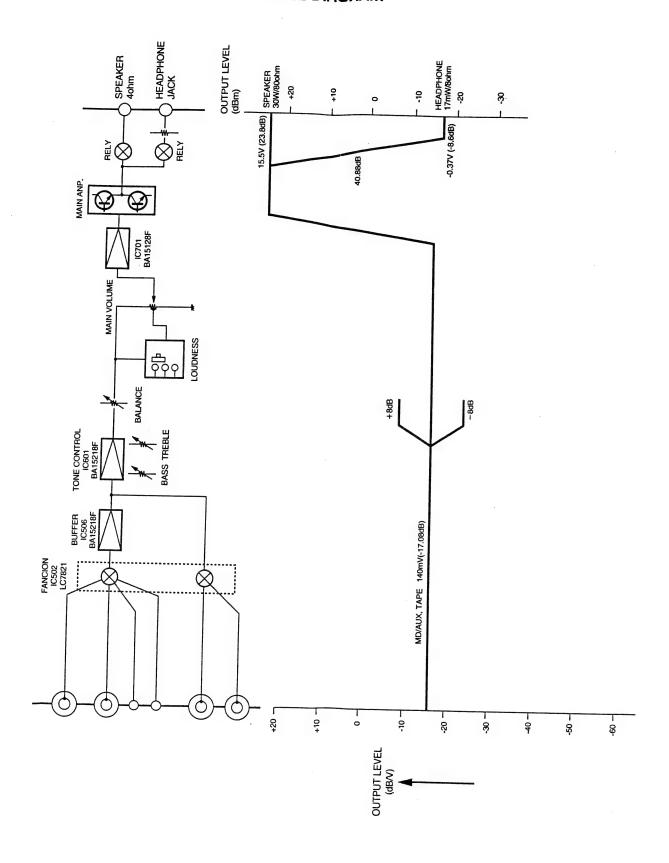
The Remove the main unit in the direction of the arrow.



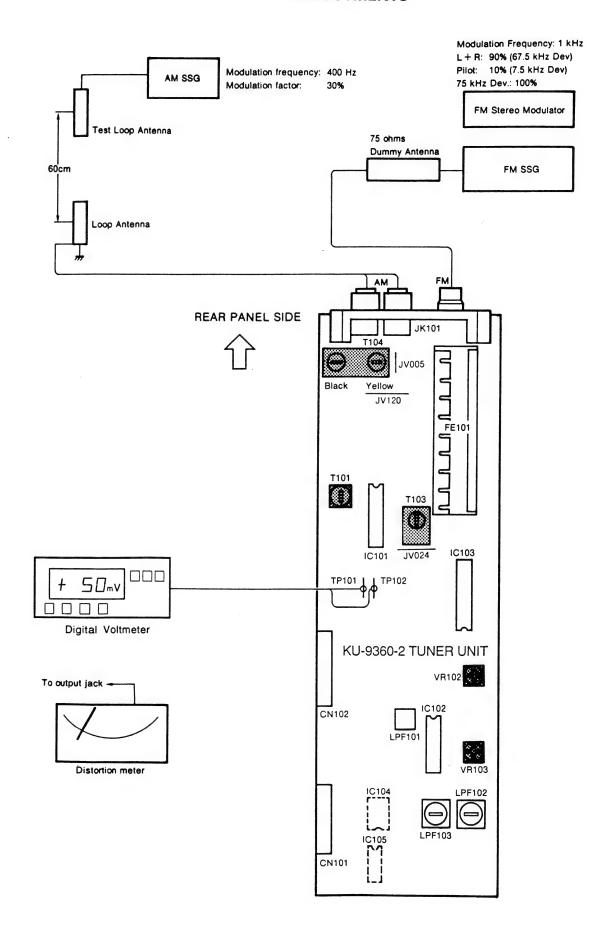


AMP. BLOCK DIAGRAM 8 1 KU-9359 TR715 25C4278F31 KU-9360-5 VOLUME UNIT AMP BOARD UNIT 1/2 BA15218F KU-9360-7 INPUT UNIT VRBO4 MAIN VOL IC502 LC782 IC506 BA15218F LOUDNESS ON/OFF RL701 I MD/AUX (PB) R VR602 BASS VR601 TREBLE SW651 1 Α TR717 2SA1633F31 TR716 2SC4278F31 SP RELAY 3W701 ON/OFF SW 2 105 1.56 SP A SW702 2 3 5 1 5 1 5 5 B +15V -15V (00) cB032 TR7 18 TR853 DTA114EK RL702 | RELAY TUNER (L) I/O EXPAND TAPE L (DC PROTECTION TR723.724 2SC2412K TR725 2SA1037K TR854 DTC143TK IC850 BU40948 В LOAD SHORT PROTECTION TR719.720 25C1841 TR721 25A968 TR729 2SC1740S SP RELAY TR727 DTC143TS CPU RELAY | 1 IC301 HD6433726 H/PHONE RELAY TR728 DTC143TS TO KU-9360 CB091 TR805 2502004 ***F TO PRE AMP +15V C REGULATOR C807 6800/50 D801 \$4VB20F TRB01 2SA1038S TRB02 2SC2389S TRB03 2SC1740S TRB07 2SC1740S TRB06 2SA933S TO KU-9360 -1 CB081 TRBOS 2SB 1328 C808 2 EEPROM TO CD UNIT RM301 SBX1610 IC302 BR9040F 50/50Hz 15S252 CLOCK 14S252 TR625 25Q174QS 1 KU-9360-1 DISPLAY UNIT D KU9360-9 TRB22 DTC114EK AC UNIT CB021 0853 KU-9360-3 TO KU-9360-2 CN121 CD UNIT C831 0.047F/5.5V RELAY CONT. TR729 DTC143TS D854 155252 TUNER | RESET | TR832 | QTQ114EK ____ T0 KU-9360-2 CN111 E TR850 851 27

LIVEL DIAGRAM



ADJUSTMENTS



1. FM adjustment (BAND button: FM, MONO/AUTO button: AUTO,

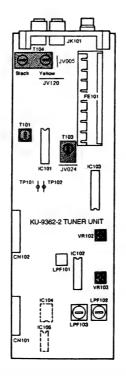
					Input			Outp	out	Adjustment		
Step	Adjustment item	Tuning point (channel setting)	ting) Measuring Francisco Input level Modulation Connection Measuring Cont		Connection location	location	Setting value	Notes				
1	FM DC balance	98.00MHz	FM S.G.	98.00MHz	60dB µ	1kHz 75kHz DEV	FM antenna terminal	Digital volt meter	TP101 TP102	T101	0±50mV	Perform with monaural modulation signal
2	Muting level	98.00MHz	FM S.G.	98.00MHz	20dB	1kHz 75kHz DEV	FM antenna terminal	Check for the lighting of TUNED	Output jack	VR102	input level 20dB µ±4dB	(Level at which TUNED lights up) Level at which the output is provided Turn VR102 fully clockwise and adjust with VR102. It is not possible to adjust with VR102.
3	Stereo separation		FM stereo modulator FM S.G.	~	60dB µ	1kHz L or R: 67.5kHz DEV Pilot; 7.5kHz DEV	-	VTVM Oscilloscope		VR103	Minimum R.ch. Output	Perform with L.ch. Input of FM stereo modulator

2. AM adjustment (BAND button: AM)

Note: The AM IFT and MW ANT./OSC. coil are adjusted individually and normally do not require adjustment.

1	IF	Clear frequency (without a broadcast)	AM IF sweep	990kHz	Level at which AGC is not applied	-	AM antenna terminal	Oscilloscope	⊕ IC101 Pin ⑭ ⊝ JV024	T103	Waveform maximum and symmetry	
		522kHz indedge 1611kHz			-	-	-	Digital voltmeter	⊕ JV120 ⊝ JV005	T104 Black	1.2V±0.2V	
2	Bandedge		-	- -						-	Approx. 7.5V	No place to adjust
3	Tracking	603kHz	AM S.G.	603kHz	Level at which ACG is not applied	400Hz 30%	Loop antenna	VTVM	Output terminal	T104 Yellow	Maximum output	

KU-9360-2 TUNER UNIT (Component Side)



CONFIRMING METHOD OF SERVO

A microcomputer adopted to this unit has the service programs so as to perform confirming more easily with the operation buttons. Digital servo adopted to this unit is became automatic adjustment status in focus gain and tracking gain.

1. Actuating the Service Program

Disconnect 15P system connector of the main unit, and while pressing the PLAY and OPEN/CLOSE buttons at the same time, switch on the system power. The power will be supplied automatically in 2 to 3 seconds, the display of the receiver will indicate "01", and the system will enter the service mode.

NOTE: Once the service program starts the operation buttons cannot be used for normal operation.

2. Operation Function at Service Program Actuation

Button Operation	Operation Function	Explanation				
▲ OPEN/CLOSE	Opens or closes disc holder button.	 Open or closes only when disc is stopped. Operate other keys after open or close. 				
■ STOP	Stops system function.	Displays track number [] . Press when adjustment completed or do it again.				
▶ PLAY	Starts Focus servo and disc turns when the PLAY button is pushed while track number 01 is displayed.					
	Starts Focus servo, Tracking servo, Slide servo and Spindle servo when the PLAY button is pushed while track number 03 is displayed.	Push to check the HF level. When completed, displays track number ☐ ☐.				
II PAUSE	Displays a result of Focus gain automatic adjustment when the PAUSE button is pushed while track number 03 is displayed.	n TRACK TIME				
	Displays a result of Tracking gain automatic adjustment when the PAUSE button is pushed while the result of the automatic focus gain adjustment is displayed.	When completed, Display shows: TRACK TIME 2- ×× ×× TIME display shows automatic adjustment value. Displays: 0 27~00 0 or 00 EE				
Other Buttons	Unable to obtain normal function.	Never attempt to operate the buttons other than the above. If the buttons are erroneously pressed, promptly turn OFF the power switch.				

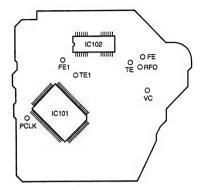
(Caution)

· During the service program is in operation, do not use remote control.

3. Confirming Method

- (1) Required Measuring Equipment
 - 1) Dual-trace oscilloscope
 - 2) Test disc: CA-1094
- (2) Check Point

CD Mechanical unit PWB (pattern view)



(3) Confirming Procedure

- 1) Actuate the service program.
- 2) Check the value of Focus gain automatic adjustment.
- 3) Check the value of Tracking gain automatic adjustment.
- 4) Check for Tracking offset.
- 5) Finish the service program and return the mode to normal operation (turn ON the power switch in normal manner).
- 6) Check for HF level.

(4) Confirming Focus Gain

- 1) Press PLAY button, (Track No. indication 13)
- 2) Press II PAUSE button. (Track No. indication 1-)
- 3) Check for automatic adjustment value.

Automatic adjustment value: 00 82 ~ 00 34 (normal temperature) (Test disc: CA-1094)

01 04 ~ 00 28 (0°C~40°C)

Note: As it is a possibility of abnormality in pick-up when automatic adjustment value is 00 EE or less than 00 27 execute the confirmation for pick-up according to pick-up replacement standard.

If there is no abnormality in pick-up as described in pick-up replacement standard notes, no problem will occur for disc playback even though the automatic adjustment value is 00 EE or less than 00 27

(5) Confirming Tracking Gain

- 1) After checking the focus gain in (4) press II PAUSE button. (Track No. indication 2).
- 2) Check for automatic adjustment value.

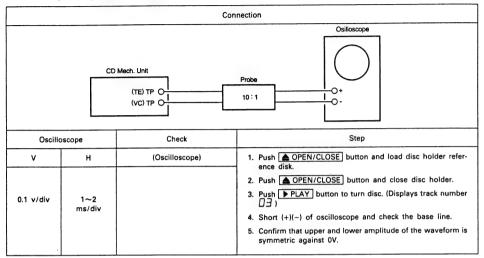
Automatic adjustment value: 00 81 ~ 00 23 (normal temperature) (Test disc: CA-1094)

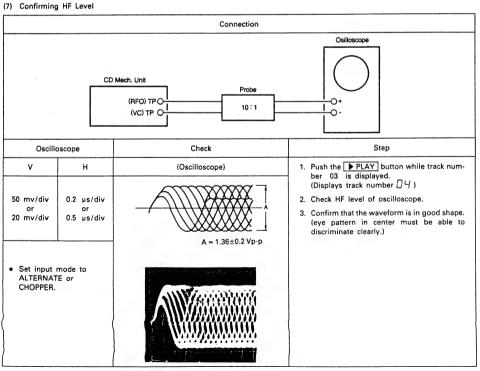
01 03 ~ 00 18 (0°C~40°C)

Note: As it is a possibility of abnormality in pick-up when automatic adjustment value is 00 EE or less the 00 22 execute the confirmation for pick-up according to pick-up replacement standard.

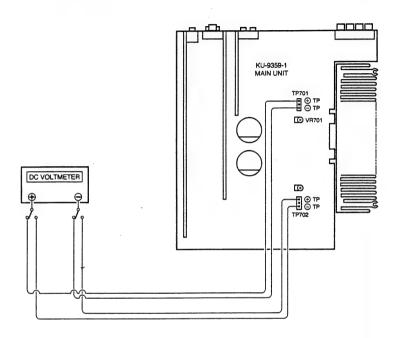
If there is no abnormality in pick-up as described in pick-up replacement standard notes, no problem will occur for disc playback even though the automatic adjustment value is 00 EE or less than 00 22

(6) Confirming Tracking offset (E/F Balance)





METHOD OF ADJUSTMENTS



DLING CURRENT

(1) Set controls as follows.

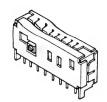
ON/STANDBY Switch -on(_) VOLUME Control → 0 (min.) SPEAKERS → off (**1**) → 15°C~30°C(59°F~86°F) Temperature VR701 an VR702 of the KU-9359-1 (Main Unit) → MIN. (C)

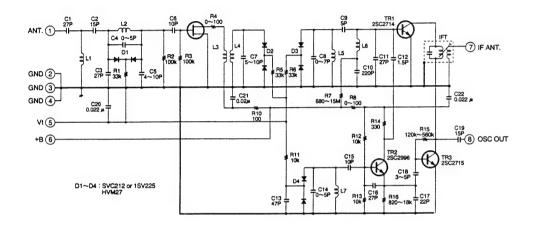
- (2) Connect DC Voltmeter to the T.P Lch and T.P Rch of the KU-9359-1.
- (3) Turn the Power Switch on and rotate VR701 clockwise so that the DCVoltmeter reads 2.5 mV !910.2 mV DC at the T.P Lch. Follow the same procedure to VR702 for T.P Rch.
- (4) Warm up for three minutes, the readjust VR701 and VR702 so that the DC Voltmeter reads 2.5 mV !910.5 mV DC.
- (5) Warm up for 10 minutes, then readjust VR701 and VR702 so that the DC Voltmeter reads 2.5 mV !910.5 mV DC.

Front End

Part No.: 216 0079 005

No.	Name	No.	Name
1	ANT	5	Vt
2	GND	6	+8
3	GND	7	IF OUT
4	GND	8	OSC OUT





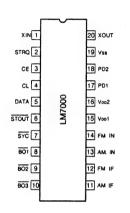
NOTES

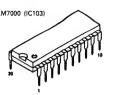
- 1. TERMINAL NUMBER REFFER TO OVERALL APPEARANCE.
- 2. RECEIVING FREQUENCY. 75 OHM. 300 OHM.
- 3. INPUT IMPEDANDE.

- 4. OUTPUT IMPEDANCE.
 5. SUPPLY VOLTAGE. +B
 6. TUNING VOLTAGE. Vt
- 12 V. 1.2 min~9.0 max V.

SEMICONDUCTORS



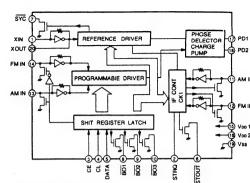






CE, CL, DATA BO1, BO2, BO3 STRQ STOUT

V_{DD}1, V_{DD}2, V_{SS} AM IF, FM IF PD1, PD2



: Clock (400 kHz) for the controller

: X'tal oscillator (7.2 MHz) with built-in feedback resistor

: Local oscillator signal input

: Data input

: Band data output. BO1 can be set as the time base output (8 Hz).

: IF counter request input

: Auto research stop signal output

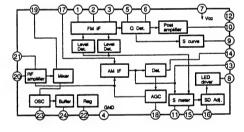
: Power supply (V_{DD}2 is a back-up power supply)

: IF signal input

: Charge pump output

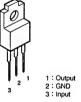


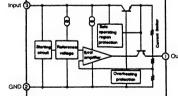




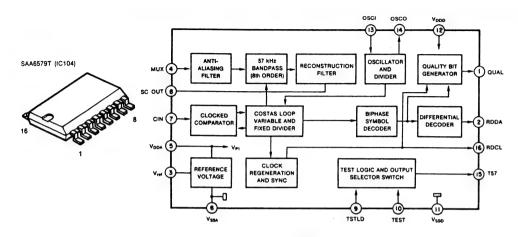
BA178M05 (IC202) +5V BA178M06 (IC822) +6V

BA178M12 (IC821) +12V



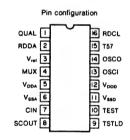




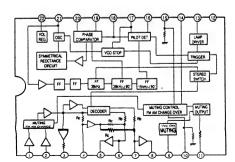


Block diagram and application circuit.

SYMBOL	PIN	DESCRIPTION
QUAL	1	quality indication output
RDDA	2	RDS data output
Vref	3	reference voltage output (0.5 V _{DOA})
MUX	4	multiplex signal input
V _{DDA}	5	+5 V supply voltage for analog part
V _{SSA}	6	ground for analog part (0 V)
CIN	7	subcarrier input to comparator
SCOUT	8	subcarrier output of reconstruction filter
TSTLD	9	test control
TEST	10	test enable
V _{SSD}	11	ground for digital part (0 V)
V _{DDD}	12	+5 V supply voltage for digital part
osci	13	oscillator input
osco	14	oscillator output
T57	15	57 kHz clock signal output
RDCL	16	RDS clock output







BR9040F (IC203)



Pin Description

Pin No.	Pin Name	input/Output	Description
1	R/B	Output	READY, BUSY status signal output
2	Vcc	-	Connected to the power supply
3	cs	Input	Chip select input
4	SK	Input	Serial data clock input
5	DI	input	Operation code, address, and serial data input
6	DO	Output	Serial data output
7	GND	-	Reference voltage of all inputs and outputs; 0 V
8	wc	Input	Write control input

Equivalent Circuit and Measurement Circuit

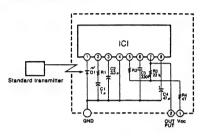
IC1: CX20106A chip

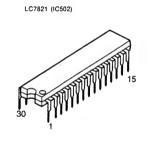
D1: PIN photodiode chip
C1, C2, and C4: Aluminum electrolytic capacitor

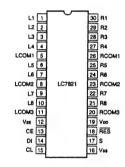
C3: SL characteristics, ±5%
R1: Resistor for gain adjustment

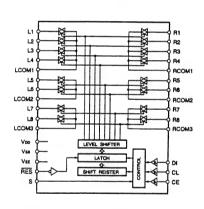
R1: Resistor for gain adjustment
R2: Use ±1% resistor for fo adjustment

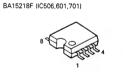
R (except for above): ±5%





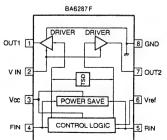




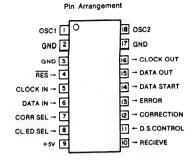








LC7070NM (IC105)

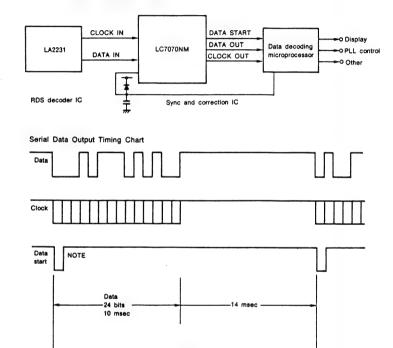


• Pin Description

Symbol	Pin No.	1/0	Function / Details	At Time of Reset
OSC1 OSC2	1 18	Input Output	· 4 MHz ceramic oscillator connection.	
CLOCK IN	5	Input	· RDS (LA2231) demodulation clock input.	"H" output
DATA IN	6	Input	· RDS (LA2231) demodulation data input.	· "H" output
CORR. SEL	7	Input	Error correction on/off selection input. Sets the IC to correct errors in the RDS demodulation data or to output the data without correction. When input is 0: No corrections are made When input is 1: Corrections are executed	"H" output
CL. ED. SEL	8	Input	Serial data clock polarity selection input. When input is 0 : Serial data output is enabled at the rise of the output clock. (Serial data output changes at the fall of the output clock.) When input is 1 : Serial data output is enabled at the fall of the output clock. (Serial data output changes at the rise of the output clock.) NOTE: Set at the time of RES input.	"H" output
D.S. CONTROL	11	Input	Block data start signal control input. When input is 0 : Data start signal is output for all blocks. When input is 1 : Data start signal is output for only the second block.	"H" output
RECEIVE	10 (NC)	Output	Output during RDS data reception. After the completion of sync detection, there is a low-level, output while the serial data is being output. There is a high-level output at other times. Open drain output.	"H" output
CORRECTION	12 (NC)	Output	Output with or without error correction. There is a low-level output when the output data of the serial data output have been corrected or when correction is not possible. There is a high-level output when correction has not been applied. Open drain output.	"H" output
ERROR	13 (NC)	Output	Presence of error output. There is a low-level output when the output data of the serial data output has an error and correction is not possible. There is a high-level output when there is no error or when the error has been corrected. Open drain output.	"H" output
DATA START	14	Output	Block data start signal of the serial data output. Open drain output: LC7070N and LC7070NM Output with pull-up resistor: LC7071NM	"H" output

Symbol	Pin No.	1/0	Function / Details	At Time of Reset
DATA OUT	15	Output	Data output of the serial data output. Open drain output: LC7070N and LC77070NM Output with pull-up resistor: LC7071NM	"H" output
CLOCK OUT	16	Output	Clock output of the serial data output. Open drain output: LC7070N and LC77070NM Output with pull-up resistor: LC7071NM	"H" output
RES	4	Input	System reset input. Reset and restart is accomplished by inputting the low level for 4 or more clock cycles.	

Structure of the RDS Data Processing System

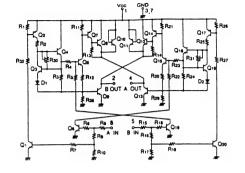


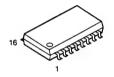
NOTE: Using the D.S. CONTROL input, only the second block among the entire 4 blocks of RDS data can be switched between the data start output and the total blocks' data start output.

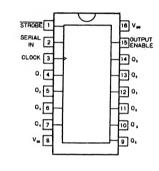
BA6207F (IC601)

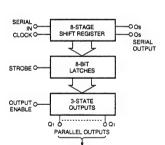


BU4094BF(IC204,850)







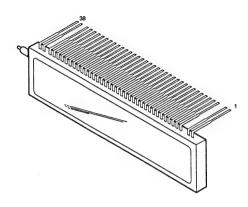


Truth Table

	OUTPUT			Paralle	Output	Serial	Output
CLOCK	ENABLE	STROBE	SERIAL IN	Q1	Qn	Qs	Qs
	н	н	L	L	Qn-1	Q ₇	NC.
	н	н	н	н	Qn-1	Q7	NC.
	н	L	X	NC.	NC.	Q ₇	NC.
	L	x	x	z	z	Q7	NC.
	н	×	×	NC.	NC.	NC.	Ost
٦	L	×	x	z	z	NC.	Qs

NC: No Change Z: High impedance X: Don't Care

FLUORECENT DISPLAY TUBE (11-BT-150GK)



PIN CONNECTION

PIN NO	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
CONNECTION	F2	F2	ΝP	NP	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	NC	NC	11G	38	38	9G	8G	7G	6G	5G	4G	3G	2G	1G	NΡ	NP	F1	F١

NOTE 1) FI,F2·····Filament

2) NPNo. Pin

3) NC ······No. Connection

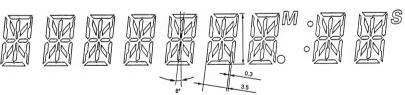
4) DL ······Datum Line

5) 1G~11G...Grid

11-BT-150GK OUTER-DIMENSION

PATTERN DETAIL



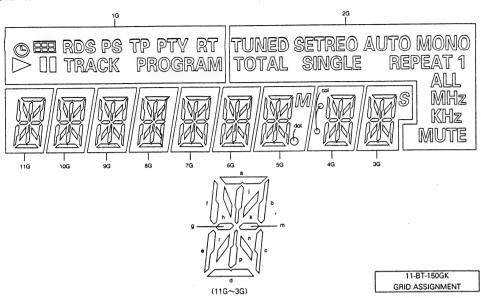


COROR OF ILLUMINATION

Reddish	Orange (Rs	h.O x=0.64	15 y=0.355 ·····	CCC Portion	of above	pattern
Green (Gx = 0.235	v=0.405		Other portion	ons	

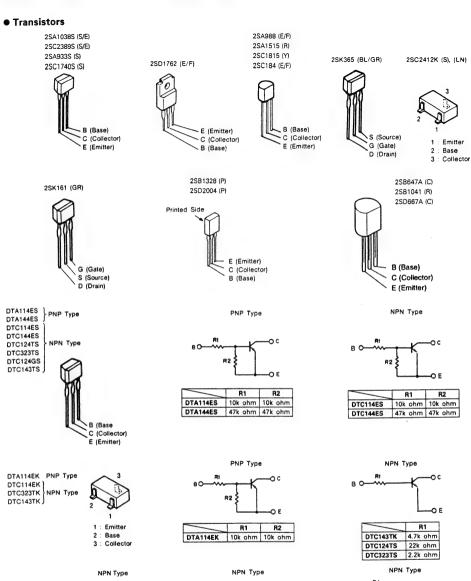
11-BT-150GK PATTERN DETAIL COLOR OF ILLUMINATION

GRID ASSIGNMENT



ANODE CONNECTION

	11G~6G	5G	4G	3G	2G	1G
P1	a	a	а	а	TOTAL	\triangleright
P2	h	h	h	h	SINGLE	
Р3	j	j	j	j	REPEAT	TRACK
P4	k	k	k	k	1	PROGRAM
P5	b	b	b	b	ALL	(
P6	f	f	f	· f	TUNED	888
P7	m	m	m	m	STEREO	RDS
P8	g	g	g	g	AUTO	PS
P9	С	С	С	С	MONO	TP
P10	е	е	е	е	MHz	PTY
P11	r	r	r	r	KHz	RT
P12	р	р	р	р	MUTE	-
P13	n	n	n	n	-	-
P14	d	d	d	d	-	_
P15	_	M	col	S	_	-
P16	-	dot	_	_	_	_



R2

R1

DTC114EK 10k ohm 10k ohm

R2

DTC124GS 22k ohm



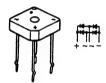
R1

DTC323TK 2.2k ohm

Diodes

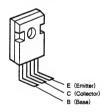


S4VB20F (D711)



Power Transistors

2SA1633F3(E/F) 2SC4278F31(E/F)



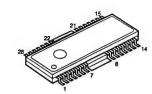
• IC PROTECTORS

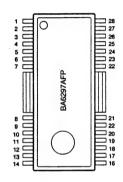
ICP-N15 (IC253)

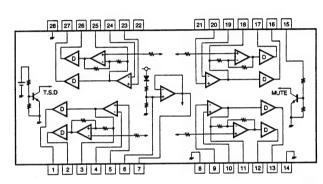


SEMICONDUCTORS

● IC's BA6297AFP







T.S.D: thermal short down D: driver buffer

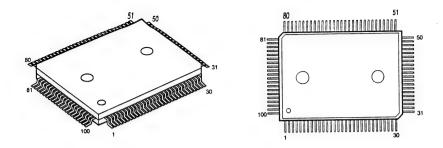
BA6297AFP Terminal Function

Pin No.	Symbol	1/0	Function
1		0	CH1 output terminal (+).
2		0	CH1 output terminal (-).
3		0	CH1 Pre-Amplifier output terminal.
4		1	CH1 Pre-Amplifier negative input terminal.
5		1	CH1 Pre-Amplifier positive input terminal.
6			Internal Vref-Amplifier resistor bias terminal.
7		0	Internal Vref-Amplifier output terminal.
8	GND		Vref-Amplifier and constant current ground.
9		1	CH2 Pre-Amplifier positive input terminal.
10		1	CH2 Pre-Amplifier negative input terminal.
11		0	CH2 Pre-Amplifier output terminal.
12		0	CH2 output terminal (-).
13		0	CH2 output terminal (+).
14	GND		CH2 and CH3 drive ground.

Pin No.	Symbol	1/0	Function
15		- 1	Driver mute control terminal.
16		0	CH3 output terminal (+).
17		0	CH3 output terminal (-).
18		0	CH3 Pre-Amplifier output terminal.
19		ı	CH3 Pre-Amplifier negative input terminal.
20		1	CH3 Pre-Amplifier positive input terminal.
21	Vcc		CH2 and CH3 driver power supply.
22	Vcc		CH1 and CH4 driver power supply.
23		1	CH4 Pre-Amplifier positive input terminal.
24		1	CH4 Pre-Amplifier negative input terminal.
25		0	CH4 Pre-Amplifier output terminal.
26		0	CH4 output terminal (-).
27		0	CH4 output terminal (+).
28	GND		CH1 and CH4 driver ground.

Note: Each driver output polarity is reference to Pre-Amplifier output terminal polarity (+).

CXD2515Q

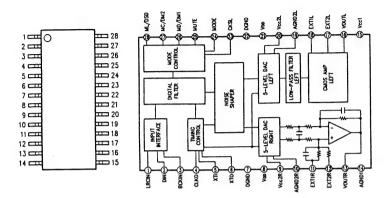


CXD2515Q Terminal Function

Pin No.	Symbol	1/0	Function
1	SRON	0	Sled drive output signal.
2	SRDR	0	Sled drive output signal.
3	SFON	0	Sled drive output signal.
4	TFDR	0	Tracking drive output signal.
5	TRON	0	Tracking drive output signal.
6	TRDR	0	Tracking drive output signal.
7	TFON	0	Tracking drive output signal.
8	FFDR	0	Focus drive output signal.
9	FRON	0	Focus drive output signal.
10	FRDR	0	Focus drive output signal.
11	FFON	0	Focus drive output signal.
12	VCOO	0	Osc. circuit output for analog EFM PLL.
13	VCOI	+-	Osc. circuit output for analog EFM PLL.
14	TEST	+	Test terminal, normal GND.
15	DVss	-	Digital ground.
16	TES2		Test terminal, normally GND.
17	TES3	1	Test terminal, normally GND.
18	PDO	0	Change pump output for analog EFM PLL.
19	VPCO	0	PLL charge pump output for variable pitch.
20	VCKI	1	Clock input from external VCO for variable pitch.
21	AVD2	-	Analog power supply.
22	IGEN	1	Power supply terminal for OP amplifier.
23	AVS2	-	Analog ground.
24	ADII	1	A/D converter input terminal.
25	ADIO	0	OP amplifier output terminal.
26	RFDC	1	RF signal input.
27	TE	1	Tracking error signal input.
28	SE	1	Sled error signal input.
29	FE	1	Focus error signal input.
30	VC	1	Middle point voltage input terminal.
31	FILO	0	Filter output for master PLL.
32	FILI	1	Filter input for master PLL.
33	PCO	0	Charge pump output for master PLL.
34	CLTV	1	VCO control voltage input for master.
35	AVSI	T -	Analog ground.
36	RFAC	1	EFM signal input.
37	BIAS	1	Asymmetry circuit constant current output.
38	ASY1	1	Asymmetry comparator voltage input.
39	ASY0	0	EFM full swing output.
40	AVDI	-	Analog power supply.
	1		

Pin No.	Symbol	1/0	Function
41	DV _{DD}	-	Digital power supply.
42	ASYE	1	Asymmetry circuit ON/OFF.
43	PSSL	1	Mode shift input of audio data output.
44	WDCK	0	48 bit slot D/A interface word clock.
45	LRCK	0	48 bit slot D/A interface LR clock.
46	DATA	0	DA16 output at PSSL=1, 48 bit slot serial data at PSSL=0.
47	BCLK	0	DA15 output at PSSL=1, 48 bit slot bit clock at PSSL=0.
48	64DATA	0	DA14 output at PSSL=1, 64 bit slot serial data at PSSL=0.
49	64BCLK	0	DA13 output at PSSL=1, 64 bit slot bit clock at PSSL=0.
50	64LRCK	0	DA12 output at PSSL=1, 64 bit slot LR clock at PSSL=0.
51	GTOP	0	DA11 output at PSSL=1, GTOP output at PSSL=0.
52	XUGF	0	DA10 output at PSSL=1, XUGF output at PSSL=0.
53	XPLCK	0	DA09 output at PSSL=1, XPLCK output at PSSL=0.
54	GFS	0	DA08 output at PSSL=1, GFS output at PSSL=0.
55	RFCK	0	DA07 output at PSSL=1, RFCK output at PSSL=0.
56	C2PO	0	DA06 output at PSSL=1, C2PO output at PSSL=0.
57	XRAOF	0	DA05 output at PSSL=1, XRAOF output at PSSL=0.
58	MNT3	0	DA04 output at PSSL=1, MNT3 output at PSSL=0.
59	MNT2	0	DA03 output at PSSL=1, MNT2 output at PSSL=0.
60	MNT1	0	DA02 output at PSSL-1, MNT1 output at PSSL-0.
61	MNTO	0	DA01 output at PSSL=1, MNT0 output at PSSL=0.
62	XTAI	1	X'tal Osc. circuit input.
63	XTAO	0	X'tal Osc. circuit output.
64	XTSL	1	X'tal select input terminal.
65	DVss	-	Digital ground.
66	FSTI	1	2/3 cycle input of Pin 62, 63
67	FSTO	0	2/3 cycle output of Pin 62, 63
68	C4M	0	4.2336 MHz output.
69	C16M	0	16.9344 MHz output.
70	MD2	1	Digital-Out ON/OFF control terminal.
71	DOUT	0	Digital-Out output terminal.
72	EMPH	0	Playback disc emphasis mode output.
73	WFCK	0	WFCK output.
74	SCOR	0	Sub code sync output terminal.
75	SBSO	0	Sub P∼W serial output.
76	EXCK	ī	Clock input for SBSO read out.
77	SUBQ	0	Sub Q 80 bit output.
78	SQCK	1	Clock input for SQSO read out.
79	MUTE	1	Mute shift terminal.
80	SENS	0	SENS output.
81	XRST	1	System reset.
82	DIRC	1	Using at 1 track jump.
83	SCLK	1	Clock for SENS serial data read out.
84	DFSW	1	DFCT shift terminal.
85	ATSK	-	Anti-shock terminal.
86	DATA	-	Serial data input from CPU.
87	XLAT	1	Latch input from CPU.
88	CLOK		Serial data transfer clock input from CPU.

PCM1710U

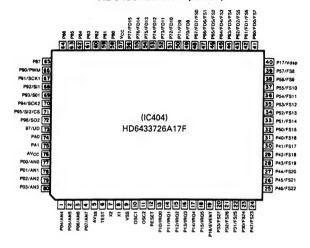


PCM1710U Terminal Function

Pin No.	Symbol	NO	Function					
1	LRCIN	1	Reference sample rate clock input (fs).					
2	DIN		Data input.					
3	BCKIN		Data bit clock input.					
4	CLKO	0	Osc, buffer (XTI inverting) output.					
5	XTI		Osc, input* (external clock input).					
6	XTO	0	Osc, output*.					
7	DGND		Digital ground.					
8	Vdd		Digital power supply (+5V).					
9	VCC2R-		Rch analog DAC power supply (+5V).					
10	AGND2R		Rch analog DAC ground.					
11	EXT1R		Rch amplifier common output.					
12	EXT2R		Rch amplifier bias output.					
13	VOUTR		Rch voltage output.					
14	AGND		Analog ground.					
15	VCC		Analog power supply (+5V).					
16	VOUTL		Lch voltage output.					
17	EXT2L		Lch amplifier bias output.					
18	EXT1L		Lch amplifier common output.					
19	AGND2L		Lch analog DAC ground.					
20	VCC2L		Lch analog DAC power supply (+5V).					
21	Vdd		Digital power supply (+5V).					
22	DGND		Digital ground.					
23	CKSL		System clock selection. H: 384 fs L: 256 fs					
24	MODE		Operation mode selection (H/Serial)					
25	MUTE		Mute control signal (H: OFF, L: ON),					
26	MD/DM1		Control data at serial/De-emphasis at parallel					
27	MC/DM2		Control bit clock at serial/De-emphasis at parallel.					
28	ML/DSD		Control data wode at serial/Double speed at parallel.					

^{*} If XTI input signal is from external clock, XTO terminal must be in OFF status. All input terminal with pull up resister.

MICROPROCESSOR DOCUMENTATION HD6433726A17F (IC404)



1. Overview

The functions of this microcomputer are made up of the following three pillars.

a. Tuner functions

These functions perform the required control for the reception of FM and AM broadcasts.

b. Auto functions

Positioned at the heart of the system stereo, the auto functions perform serial communications with other components (such as the deck, CD and amplifier) to provide overall control.

These functions decoder the signals from the remote control and send them to each component of the system.

c. Timer functions

Counts the clock of the 24 hour display.

Operates the three kinds of timers: Every Day, Once and Sleep.

Note 1) When the power cord is plugged in while pressing both keys PRESET DOWN and MEMO, the following tracking adjustment frequencies are automatically stored in the preset memory. Use these for adjustment, etc.

	P1	P2	P3	P4	P5	P6
AM	522kHz	603kHz	999kHz	1098kHz	1404kHz	1611kHz
	P11	P12	P13	P14	P15	
FM	87.50MHz	89.00MHz	98.00MHz	100.10MHz	108.00MHz	

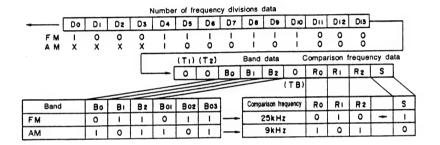
- Note 2) When the power cord is plugged in while pressing both keys MEMO and PRESETUP, the entire memory is initialized and the microcomputer operates from the beginning of the program. If there are any problems in the frequency presetting or the time display, follow this procedure for proper start-up.
- Note 3) When the power cord is plugged in while pressing both keys MEMO and TIMER, the entire LCD will alternatively light up and down. To return to the normal mode from this mode, unplug the power cord, and then plug it back in.
- Note 4) When the power cord is plugged in while pressing both keys MEMO and TUNING UP, can set the power on without DENON display. To return to the normal mode from this mode, unplug the power cord, and then plug it back in.

2. Receiving Band Table

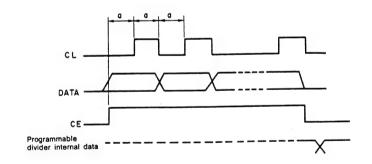
Band	Receiving frequency	Local oscillator frequency	IF	Frequency division ratio	Comparison frequency	Step frequency	Other
FM	87.50~108.00MHz	98.20~118.70MHz	10.7MHz	1	25kHz	50kHz	
AM	522~1611kHz	972~2061kHz	450kHz	-	9kHz	9kHz	

3. Signals sent to the LM7000 Programmable Divider

- a. Signals to the programmable divider are sent from 3 sources: CE OUT, CLOCK OUT, and DATA OUT.
- b. The programmable divider takes in DATA at CLOCK ____, when CE equals 1.
- c. The data is a 24-bit serial signal which is taken in to the programmable divider from the LSB. (At the AM setting, D₀ through D₃ are ignored, so that D₄ becomes the LSB.)
- d. The data is made up of the number of frequency divisions data, the band data, and the comparison frequency data. (See diagram below.)



e. Timing for sending $a = 2.5 \, \mu \text{sec}$



● Pin Description (HD6433726A17F)

Pin	Pin No.	10	TY	ОР	DT	RS	IN	AC	Function Name	Use	Function Definition
1	P04/AN4	T	С	Eu	Lv	Z	-	Н	KRO IN		Key input read pin
2	P05/AN5	T	С	Eu	Lv	Z	-	Н	KR1 IN		
3	P06/AN6	ı	С	Eu	Lv	Z	-	Н	KR2 IN		
4	P07/AN7	1	С	Eu	Lv	Z	-	н	KR3 IN		
5	AVss	=	-	-	_	-	-	-	GND		Ground
6	TEST	ī	-	-	-	-	-	-	TEST		Microprocessor test pin. Connected to ground.
7	X2	0	-	-	-	-	-	-	SUB CLOCK		32.768 kHz oscillator pin
8	X1	1	=	-	-	-	=	-	SUB CLOCK		32.768 kHz oscillator pin
9	Vss	-	-	-	-	-	-	-	GND		Ground
10	OSC1	T	-	-	-	-	-	-	SYS CLOCK		4 MHz oscillator pin
11	OSC2	0	-	-	-	-	-	-	SYS CLOCK		4 MHz oscillator pin
12	RESET	1	-	-	-	-	-	L	RESET IN		System reset input pin
13	P10/IRQ0	1	С	Eu	Eg	-	-	-	50/60 IN		AC pulse input for power supply sync and also power outage detection input.
14	P11/IRQ1	ı	С	Eu	Eg	-	-	L	REMOCON IN		Remote control signal interrupt input
15	P12/IRQ2	ī	С	Eu	Eg	-	-	Н	SCOR IN	CD	SCOR detection interrupt input
16	P13/IRQ3	ı	С	Eu	Eg	-	-	L	SENSE IN	CD	SENSE detection interrupt input
17	P14/IRQ4	T	С	Eu	Eg	-	-	L	DATA ST IN	TUNER	RDS data fetch start interrupt input
18	P15/IRQ5	1	С	Eu	Lv	-	-	L	PROTECT IN	AMP.	Protect operation detection input. Protect = L
19	P16/EVENT	1	С	Eu	Lv	-	-	L	OPEN IN	CD	CD loader open position detection input. Open = L
20	P33/FS27	1	С	Εu	-	-	-	Н	K3 IN		Selection switch input
21	P32/FS26	1	С	Eu	_	_	_	н	K2 IN		Selection switch input
22	P31/FS25	1	С	Eu	-	-	-	Н	K1 IN		Selection switch input
23	P30/FS24	1	С	Eu	-	-	-	н	KO IN		Selection switch input
24	P47/FS23	0	Р	Ed	-	z	L	н	P0		Fluorescent display segment drive output
25	P46/FS22	0	Р	Ed	-	Z	L	н	P1		Fluorescent display segment drive output
26	P45/FS21	0	Р	Ed	-	z	L	н	P2		Fluorescent display segment drive output
27	P44/FS20	0	Р	Ed	-	Z	L	н	P3		Fluorescent display segment drive output
28	P43/FS19	0	Р	Ed	-	Z	L	н	P4		Fluorescent display segment drive output
29	P42/FS18	0	Р	Ed	-	Z	L	н	P5		Fluorescent display segment drive output
30	P41/FS17	0	Р	Ed	-	Z	L	н	P6		Fluorescent display segment drive output
31	P40/FS16	0	Р	Ed	-	Z	٦	н	P7		Fluorescent display segment drive output
32	P50/FS15	0	Ρ	Ed	-	Z	L	Н	P8		Fluorescent display segment drive output
33	P51/FS14	0	Р	Ed	1	Z	L	н	P9		Fluorescent display segment drive output
34	P52/FS13	0	Р	Ed	1	Z	L	Н	P10		Fluorescent display segment drive output
35	P53/FS12	0	Р	Ed	-	Z	L	н	P11		Fluorescent display segment drive output
36	P54/FS11	0	Ρ	Ed	-	Z	L	н	P12		Fluorescent display segment drive output
37	P55/FS10	0	P	Ed	-	Z	L	Н	P13		Fluorescent display segment drive output
38	P56/FS9	0	Р	Ed	-	Z	L	н	P14		Fluorescent display segment drive output
39	P57/FS8	0	Р	Ed	-	Z	L	н	P15		Fluorescent display segment drive output
40	P17/Vdisp	1	-	Eu	-	-	-	L	CLOSE IN	CD	CD loader close position detection input. Closed = L
\rightarrow	P60/FD0/FS7	0	Ρ	Ed	-	Z	L	н	G11	CD	Fluorescent display digit drive output and also key scan signal output.
-	P61/FD1/FS6	0	Ρ	Ed	-	Z	L	н	G10	CD	Fluorescent display digit drive output and also key scan signal output.
_	P62/FD2/FS5	0	Ρ	Ed	-	Z	L	н	G9	CD	Fluorescent display digit drive output and also key scan signal output.
-	P63/FD3/FS4	0	Ρ	Ed	-	Z	L	н	G8	CD	Fluorescent display digit drive output and also key scan signal output.
_	P64/FD4/FS3	0	Р	Ed	-	Z	L	Н	G7	CD	Fluorescent display digit drive output and also key scan signal output.
	P65/FD5/FS2	0	Р	Ed	-	Z	L	Н	G6	CD	Fluorescent display digit drive output and also key scan signal output.
_	P66/FD6/FS1	0	Р	Ed	-	Z	L	H.	G5	CD	Fluorescent display digit drive output and also key scan signal output.
\rightarrow	P67/FD7/FS0	0	Р	Ed	-	Z	L	Н	G4	CD	Fluorescent display digit drive output and also key scan signal output.
_	P70/FD8	0	Р	Ed	-	Z	L	н	G3	CD	Fluorescent display digit drive output and also key scan signal output.
	P71/FD9	0	Р	Ed	-	z	L	н	G2	CD	Fluorescent display digit drive output and also key scan signal output.
\rightarrow	P72/FD10	0	Р	Ed	-	Z	L	н	G1	CD	Fluorescent display digit drive output and also key scan signal output.
	P73/FD11	0	Р	Ed	-	Z	Н	L	SYREC OUT	CD	Sync record start acknowledge output. L = Sync Record OK
-	P74/FD12	0	Р	Ed	-	Z	Н	L	PWR ON OF OU	AMP.	Power relay drive output. H = Power ON
	P75/FD13	0	Р	Eđ	-	Z	н	L	SP RELAY OUT		Mute output at time of function change. H ≈ Relay ON
	P76/FD14	9		Ed	- (2	н	-	STOPRED OUT	TUNER	PLL stop request output. Stop request = H
56	P77FD15	0	Р	Ed	-	Z	н	L	F.CE OUT	AMP.	Data latch output of LC7812 function LSI
\rightarrow	Vcc	-	-	-	-	_	-]	Ξ	Vcc		865 V power supply input
58	P80	1	С	Eu	-	Z	н	L	SYREC IN	CD	Sync record start acknowledge input. L = Sync record start

Pin	Pin No.	ю	ΤΥ	OP	DT	RS	IN	AC	Function Name	Use	Function Definition	
59	P81	0	С	Ed	-	Z	L	Н	94A.CE OUT	AMP.	BU9404 data latch output of the amplifier and tuner system.	
60	P82	0	С	Ed	-	Z	L	Н	P.CE OUT	TUNER	PLL LM7000 data latch output	
61	P83	0	С	N	-	Z	Н	L	40CE OUT		BU9040 CHIP ENABLE output	
62	P84	0	С	N	-	Z	L	Н	C.DATE OUT	CD	Data output for DSP control	
63	P85	0	u	N	-	Z	L	Н	C.CLK OUT	CD	Clock output for DSP control	
64	P86	0	C	N	-	Z	Н	L	C.XLT OUT	CD	Latch output for DSP control	
65	P87	0	c	N	-	Z	L	Н	C SCLK OUT	CD	Clock output for reading the DSP status from SENSE.	
66	P90/PWM	0	С	Ed	-	Z	L	Н	94C.CE OUT	CD	BU9404 data latch output of the CD system.	
67	P91/SCK1	1	С	N	-	Z	-	-	R.CLK IN	TUNER	RDS data fetch clock input/CLOCK output for BU9040	
68	P92/S11	1	С	N	-	Z	-	-	R.DATE IN	TUNER	RDS data serial input/BU9040 read DATA input	
69	P93/S01	0	С	N	-	Z	Н	Н	40.DATE IN		BU9040 write DATA output	
70	P94/SCK2	1.	С	N	-	Z	-	1	C.SQCK IN	CD	SUBQ data fetch clock input	
71	P95/SI2	1	С	N	-	Z	-	1	C.SUBQ IN	CD	SUBQ data serial input	
72	P96/S02	1	С	Ν	-	Z	-	L	GFS IN	CD	GFS monitor input pin	
73	P97/UD	1	С	Z	Lv	Z	-	H	FOK IN	CD	FOK monitor input pin	
74	PA0	0	C	Ν	-	Z	L	Н	DATE OUT		Data output of the two BU4094, LM7000, and LC7812	
75	PA1	0	C	N	-	Z	L	н	CLK OUT		Clock output of the two BU4094, LM7000, and LC7812.	
76	AVcc	-	-	-		-	-	-	AVcc		Connected to the Vcc pin.	
77	P00/AN0	1	С	Eυ	Lv	Z	-	L	TUNED IN	TUNER	Tuning signal input. L = Tuned	
78	P01/AN1	1	С	ΕU	Lv	Z	-	L	SIGNAL IN	TUNER	Tuning signal input. L = Signal	
79	P02/AN2	1	С	Eυ	Lv	Z	-	L	STEREO IN	TUNER	Stereo mode detection input. L = Stereo	
80	P03/AN3	1	С	Eυ	Lv	Z	-	L	STOP IN	TUNER	PLL stop input. L = Stop	

NOTE

IO: Port use. In/Out.

TY: Port type. C/P/N mos, Analog

OP: mask option. Ex/In ternal pull Up/Down, No

DT: port detect type. Edge, Level

RS: Port output when reset.

IN: Port output by initialize by soft AC: Port in/out activity. Low/High active

Z: High inpeadance

Buttons of the Main Unit

NO.	Function Name	Function and Definition
1	FREQ. UP	 In the tuner receiving mode, changes the reception frequency upward by one step. Holding the button down for 0.5 seconds or longer causes a continuous change of frequency, and releasing the button sets the auto tuning mode from that point onward. Another press of the button sets the manual tuning operation. Increments the registration number at the time of preset memory registration. Becomes a one-step shift button in the upper direction for selection options when setting the time, setting the timer, and setting the RDS mode. Holding the button down for 0.5 seconds or longer causes a continuous change, and releasing the button result in a return to the one-step operation.
2	FREQ. DOWN	Provides the reverse operations of FREQ. UP.
3	PRESET UP	 Function = Tuner: This button increments the preset number from the current setting provides reception. Function = CD: This button operates as the forward search button. Combined use of manual and automatic modes. Function settings other than 'Function = Tuner, or CD' result in a switch over to 'Function = Tuner.' A press of the button in the power off mode results in the power being switched on in the 'Function = Tuner' mode, and the reception of the currently preset number.
4	PRESET DOWN	 Provides the reverse operations of PRESET UP. A press of the button in the power off mode results in the power being switched on in the 'Function = Tuner' mode, and the reception of the currently preset number.
5	PRESET SCAN	A press of this button scans preset stations in order from P1 through P20, receiving each for 5 seconds. Another press of the button stops the operation.
6	MEMORY	 This button switches the unit to the preset registration mode, and writes the currently received station to preset memory for storage. Becomes the registration ENTER button when setting the time, timer, and RDS.
7	BAND	 Toggles between FM and AM when the function is set to tuner and receives the last channel of the selected band. Function settings other than 'Function = Tuner' result in a call back to 'Function = Tuner' and reception of the last channel. A press of the button in the power off mode results in the power being switched on in the 'Function = Tuner' mode, and the reception of the last channel.

NO.	Function Name		Function and Definition
8	FM MODE (AM MODE) (AUTO/MONO)		This button switches the FM reception mode between the STEREO/MONO auto mode and the MONO fixed mode. Toggles AUTO/MONO OUT between high and low level. Can be used with AM depending on the setting of the selection switch.
10	FM	*	Function = Tuner: Sets the band to FM and receives the last FM channel. Function settings other than 'Function = Tuner' result in a call back to 'Function = Tuner,' setting of the band to FM, and reception of the last FM channel. A press of the button in the power off mode results in the power being switched on in the 'Function = Tuner' mode, and the reception of the last FM channel.
11	AM/FM	*	Function = Tuner: Sets the band to AM and receives the last AM channel. Function settings other than 'Function = Tuner' result in a call back to 'Function = Tuner,' setting of the band to AM, and reception of the last AM channel. A press of the button in the power off mode results in the power being switched on in the 'Function = Tuner' mode, and the reception of the last AM channel.
12	LOCAL/DX	☆	This button switches the antenna input attenuator on and off. Toggles LOCAL/DX OUT between high and low level.
13	TEN KEY P1~10 (REMOCON ONLY)	\$	These buttons specify preset memory numbers 1 through 10. Function settings other than "Function = Tuner" result in a switch to "Function = Tuner" and reception of the specified number. A press of the button in the power off mode results in the power being switched on in the "Function = Tuner" mode, and the reception of the specified preset number.
14	P+10 (REMOCON ONLY)	\(\)	This button specifies the addition of ten to the preset memory number. • A press of this button in the power off mode results in the power being switched on in the 'Function = Tuner' mode with the next P1 through P10 button input, and the reception of the specified preset number.
15	RDS	Г	Transition command to the RDS mode and operation mode selection button.
16	СТ		CT display start and internal clock update starting button.
17	DISPLAY		Function settings other than 'Function = CD' result in this button providing switching between the various function displays and the clock display. Holding the button down sets the time setting mode. Function = CD: This button operates as the TIME button. Depressing the button for 3 seconds is invalid.
18	SLEEP		This is the setting button of the timer which switches the power off after the set time (within 60 minutes).
19	TIMER	☆	This button causes a transition to the timer setting mode.
20	STAND BY	*	A press of this button selects whether or not the timer operation will be performed with a press of this button. This button causes the mark to light or go off.
21	CLEAR	☆	This button switches all the power of the system on and off.
22	POWER		This button switches all the power of the system on and off.
23	FUNCTION		This button switches the function in a cyclic manner (i.e., a rotary function).
24	SDB		Switches SDB on and off.
25	-20 dB MUTE		Switches -20 dB mute on and off.
23	DIMMER	☆	This button switches the dimmer.
26	STOP		This button commands CD play to stop. It stops the rotation of the disc and causes the pickup to move to the innermost track.
27	PLAYE		CD play start button. When this button is pressed to a function setting other than "Function = CD," the function is set to CD and the CD is played. A press of this button in the power off mode results in the power being switched on in the "Function = CD" mode, and the CD is played.
28	PLAYE		Commands the repeat mode. Cyclic switching in the sequence of REPEAT 1 TRACK -> REPEAT ALL -> NORMAL.
29	OPEN/CLOSE		This button commands opening and closing of the tray with a toggle operation. Can operate with all of the functions. A press of this button in the power off mode results in the power being switched and the operation.
30	TEN KEY T1~10 (REMOCON ONLY)	\$	These buttons specify the track number. Valid only in the "Function = CD" mode.
31	TEN KEY T1~10 (REMOCON ONLY)	\ \ \	This button specifies the addition of ten to the track number. Valid only in the "Function = CD" mode.

NO.	Function Name	Function and Definition
Δ	SYREC	Inputs a CD sync record transition. Valid only in the "Function = CD" mode.
32		Continuously depressed at the time of the CD sync record transition.

Description of the Button Functions

♦: Button of the remote control only

No mark: Button found on both the main unit and the remote control.

NOTE: Buttons in common for CD and tuner

Matrix

SCAN LINE	KO IN	K1 IN	K2 IN	K3 IN
P0	AUX	AM STEREO	XTAL	OEM
P1	USA	EUP	FREQ	AUTO P.SET
P2	PHONO	SDB/MUTE	_	-

Description of the Functions

NO.	Function Name	Function and Definition
1	USE	USA destination selection switch. Refers to the destination selection list.
2	EUP	Europe destination selection switch. Refers to the destination selection list.
3	FREQ	IF frequency setting switch. Refers to the destination selection list.
4	AUX	This switch changes the function display in the AUX function. Open: MD/DAT (normal setting) Shorted: AUX
5	AM STEREO	Selection switch for whether or not AM stereo operation will be enabled on the AM bands of all destinations. Open: AM stereo operation not enabled (except for Japan). (Normal setting) Shorted: AM stereo operation enabled (for all destinations).
6	XTAL	Selection switch for whether the clock count is based on power supply synchronization or 32.768 kHz. Open: 32.768 kHz crystal (Normal setting) Shorted: Power supply synchronization
7	OEM	This switch selects the display when the power is on. Open: DENON display (Normal setting) Shorted: HELLO display
8	△ PHONO	This switch selects whether PHONO is to be skipped with the function switching.(PHONO setting of the remote control is ignored.) Shorted: No skipping (Normal setting) Open: Skipping
9	SDB/MUTE	This switch selects the priority of SDB or 20 dB muting. Open: Mute (Normal setting) Shorted: SDB
10	AUTO PRESET	This switch selects whether or not to perform the auto preset operation. Open: Perform the auto preset operation. (Normal setting) Shorted: Do not perform the auto preset operation.

MICROPROCESSOR PERIPHERAL WIRING DIAGRAM 8 6 2 3 TUNER / AMP / CD IC104 DAO T57 15 HOS DATA LINE 3 VREF OSC2 14 CDM14-5BDIO UNIT 4 MUX OSC1 13 Α VDDA VDDD 12 RDS & VSSA VSSD 11 Z SCIN TEST 10 SAA6579T 18 0SC2 0SC1 1 OPEN CW 1Z GND GND 2 16 CLKO GND 3 R.DATA 15 DTO RES 4 12515676601254667660125466766 DT START14 DTST CLKI 5 13 ERR DTI 12 COR CASL 11 DSC CESL B 10 RCV VCC B В 1C103 1 XIN XOUT CXD2515Q DSP DATA START IN PD1 17 B BO1 AMIN 13 9 802 FMIF 12 SYSTEM CLOCK 4MHz SUB CLOCK 32.768KHZ C 10 803 AMIF SELECT SW MATRIX KEY MATRIX 94.DATA 94.CLK FUNCTION STOP D SDB/ MUTE EUP 10850 TUNING P. SET PLAY SYREC XTAL OEM CLEAR -2008 8929999999 8117111111111000700 FLD E 1234587889111111 53 FL301 16HT38GKS

E

53

RCD-100 MICROPROCESSOR PERIPHERAL WIRING DIAGRAM 8 6 7 5 3 2 TUNER / AMP / CD 1C104 1 QUAL CKO 18 2 DAO T57 15 3 VREF OSC2 14 ## CAN CONTROL OF THE CDM14-5BDIO UNIT 4 MUX 0SC1 13 EXTERNAL RAM 1C302 1 CS VCC 19 2 SK R/B 15 3 DI WC 4 DO GND 13 BR9040 F VDDA VDDD 12 RDS & VSSA VSSD 11 Z SCIN TEST 10 SAA6579T 18 0SC2 0SC1 1 17 GND GND 2 16 CLKO GND 3 11234155755566666666667777777777777 A.DATA 15 DTO RES 4 DT START14 DTST CLKI 13 ERR DTI XRST DIRCK SCLK SCLK ATSK ATSK ATSK AXLAT CLOW MIRCT FOW MIRCT FOW MOP MOCK SSTDR SSTDR 12 COR CRSL 7 11 DSC CESL B 10 RCV VCC 9 B IC103 CXD2515Q DSP STOP REG DATA START IN PD2 18 84.CLK PD1 17 94.DATA STOP VDD1 922222222221111111111111111111198785492 SYC FMIN PLL BOT AMIN 9 BO2 FMIF 12 SYSTEM CLOCK 4MHZ SUB CLOCK 32.768KHZ RESET OUT C 10 803 AMIF KEY MATRIX SELECT SW MATRIX KRO DISPLAY MEMORY DPEN/ REPEAT STAND AUTO/ CLOSE BY MONO F.CE 94.DATA 94.CLK STOP BAND FUNC ADS 100 100 D AM ST RESET EUP STRBVCC SIN OE CLK Q5 Q1 Q6 Q2 Q7 Q3 Q8 Q4 Q'S GND QS TUNING P. SET PLAY FREG

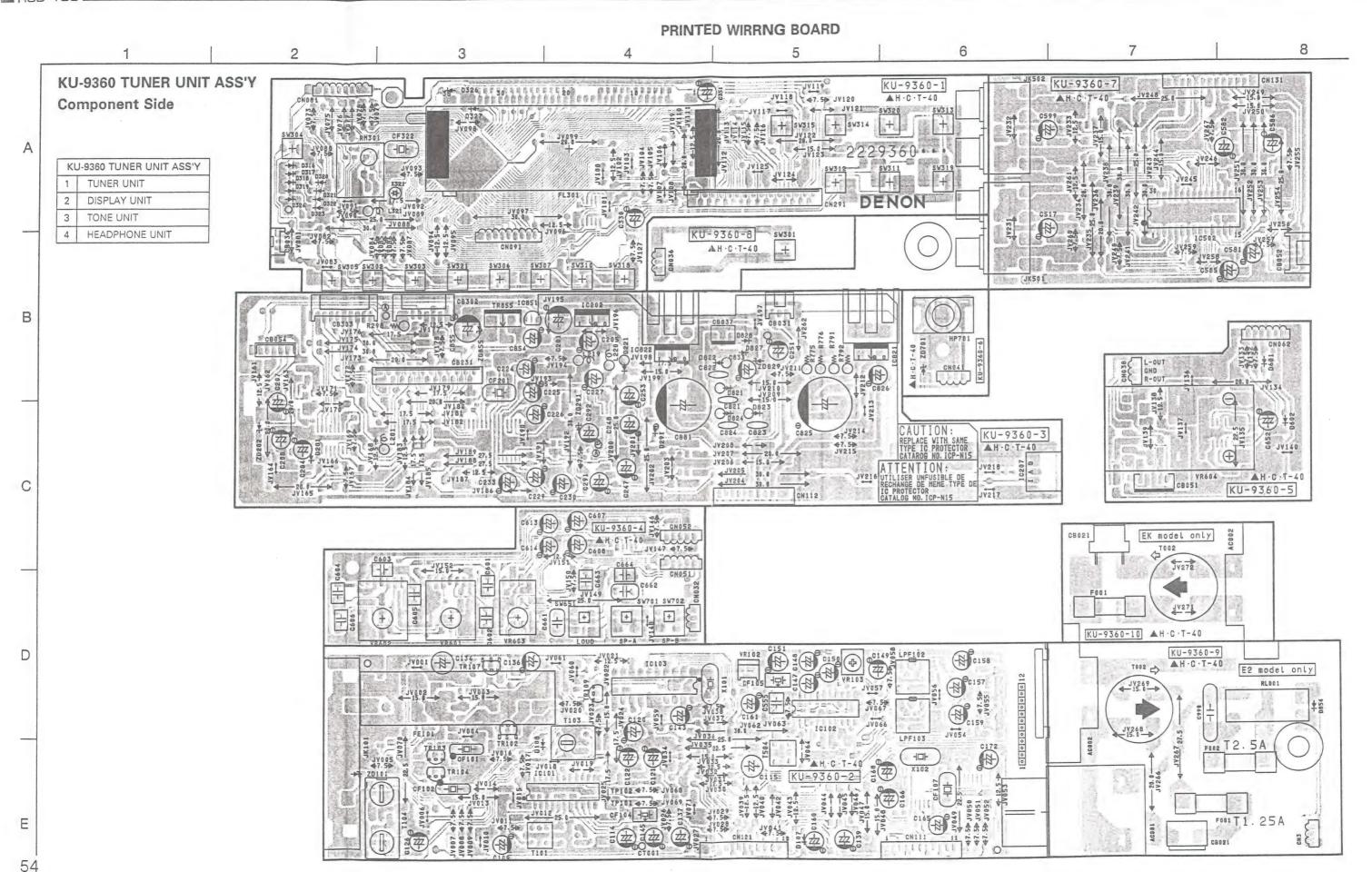
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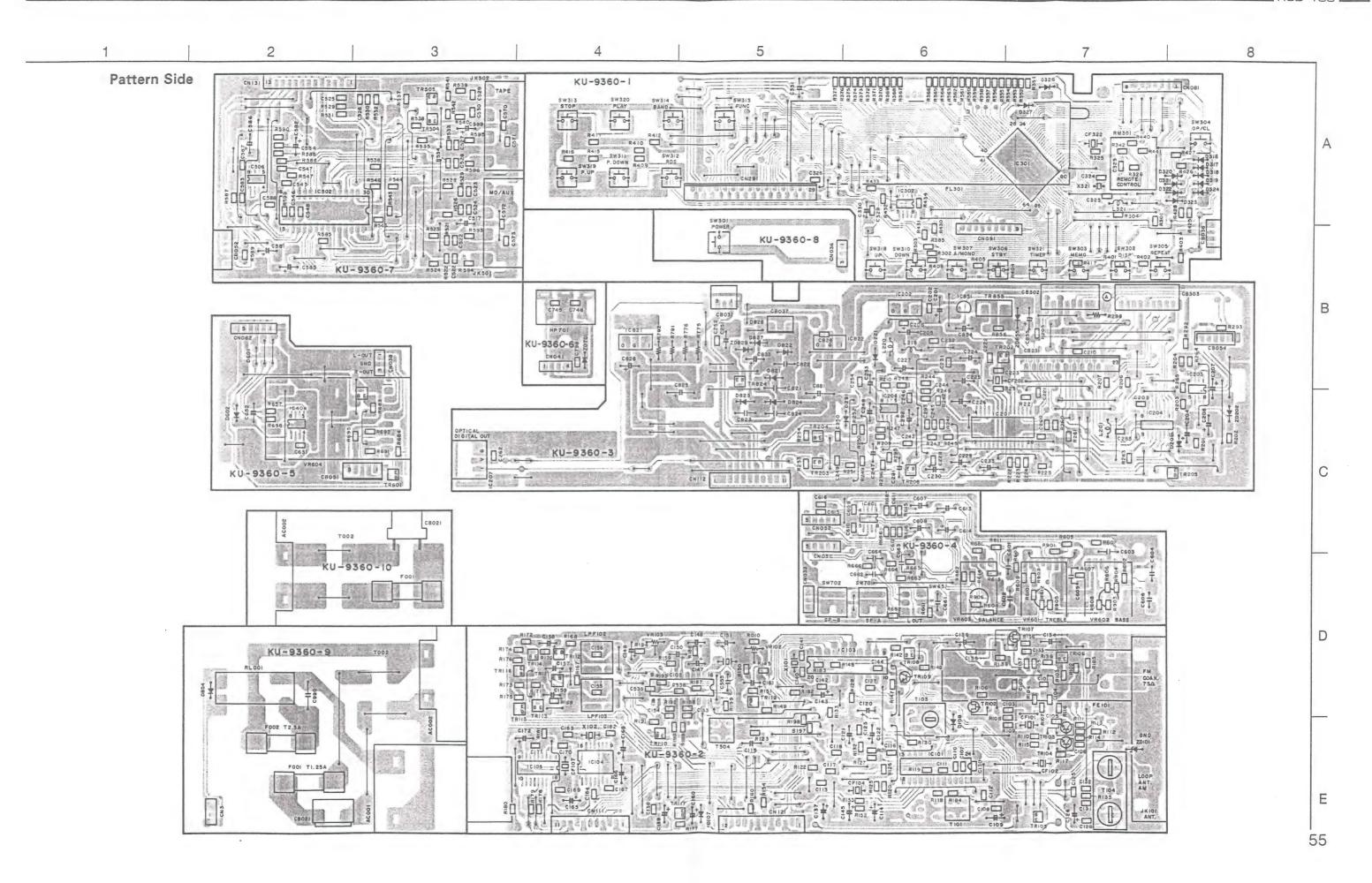
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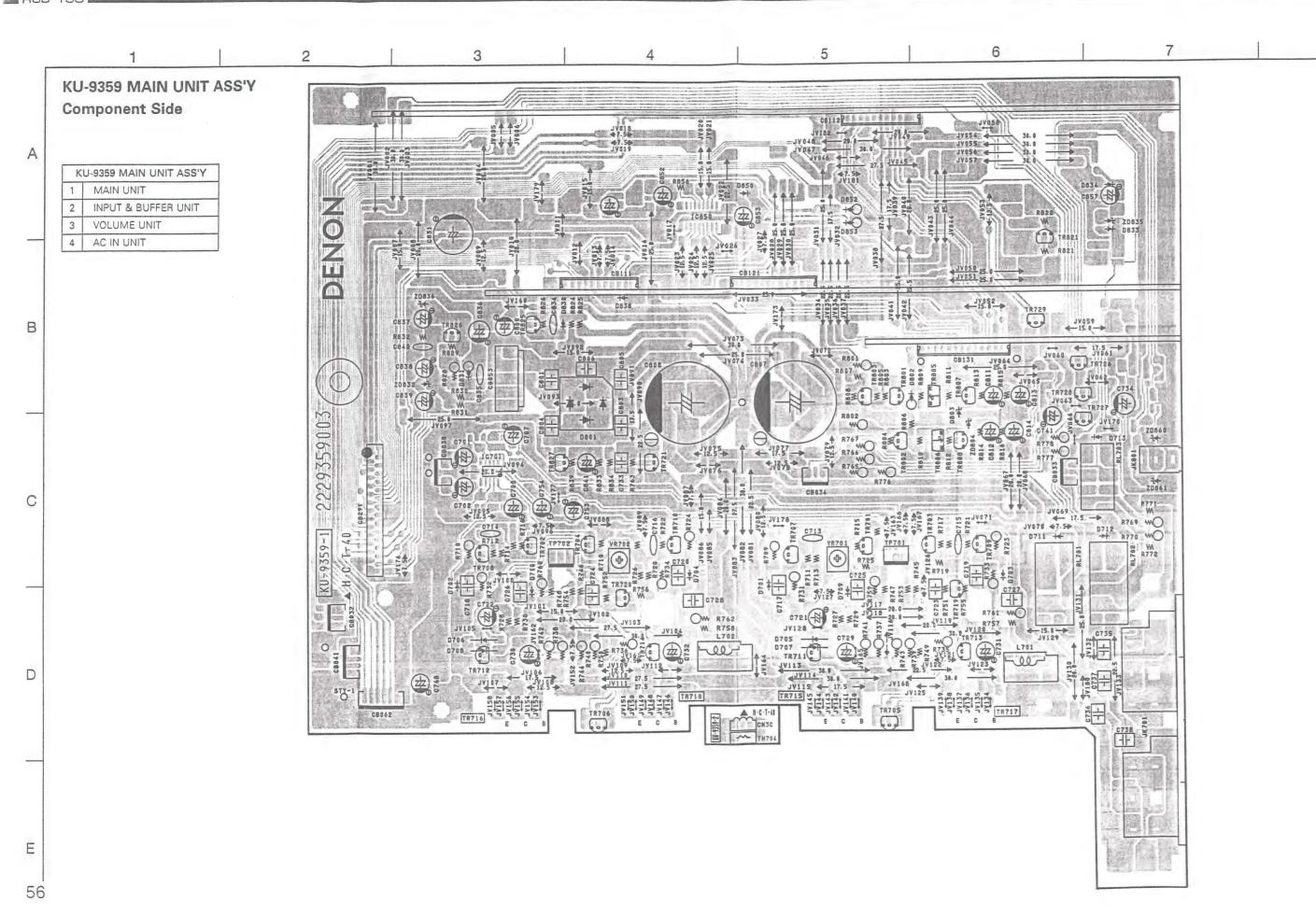
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FL301 16NT38GKS

FLD







8 Pattern Side TR729 KU-9359-1 SYNCHRO REC

ZDB51

RT71

W
WRT69

WBT70 TR708 TR705

A

В

С

D

Е

NOTE ON PARTS LIST

- Part indicated with the mark "@" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "1" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "* is not illustrated in the exploded view.
- Not including Carbon Film ±5%, 1/4 W Type in the P.W. Board parts list. (Refer to the Schematic Diagram for those parts.)

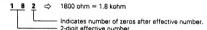
WARNING

Parts marked with this symbol 🛕 🚟 have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

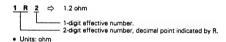
Resistors

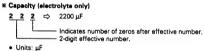
Ex.:	RN	14K	2E	182	G	FR
	Туре	Shape and per- formance	Power	Resist- ance	Allowa	Others
RC : RS : RW : RN :	Carbon f Compos Metallic Winding Metal file Metal m	ition oxide Film m	2B:1/ 2E:1/ 2H:1/ 3A:1W 3D:2W 3F:3W 3H:5W	4W G: 2W J V K. W M:	±1% ±2% ±5% ±10% ±20%	P : Pulse-resistant type NL : Low noise type NB : Non-burning type FR : Fuse-resistor F : Lead wire forming

* Resistance



Units: ohm

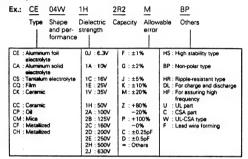




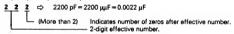
2 R 2 ⇒ 2.2 μF

L		effective effective		point ind	icated by	R
• Un	its: μF					

Capacitors



* Capacity (except electrolyte)



• Units: μF

2	2	1	\Rightarrow	220 pF	
		L	(0 or		Indicates number of zeros after effective number. 2-digit effective number.

• Units: pF

 When the dielectric strength is indicated in AC, "AC" is included after the dielectric strength value.

KU-9360 TUNER UNIT ASS'Y PARTS LIST

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
SEMICON	DUCTORS GROU	UP I		D821~824	276 0553 905	Diode 1SR35-200A	
IC101	263 0421 002	IC LA1267					
IC102	263 0439 007	IC LA3401		ZD101	276 0643 941	Zener Diode MTZJ3.6A	3.6V
IC103	262 0703 002	IC LM7000		ZD202	276 0643 970	Zener Diode MTZJ4.7A	4.5V
IC105	263 0614 903	IC LC7070NM-TE-R		ZD291	276 0616 907	Diode 1SS252	
IC201	262 2107 907	IC PCM1710U		ZD291	276 0644 966	Zener Diode MTZJ12A	11.5V
IC202	263 1024 000	IC BA178M05	Regulator +5V	ZD701,855	276 0644 924	Zener Diode MTZJ8.2A	7.7V
IC203	263 0994 908	IC BA6287F		ZD829	276 0633 906	Zener Diode MTZJ6.8C	6.8V
IC204	263 1040 903	IC BU4094BF					
IC206,506	263 0615 902	IC BA15218F		RESISTORS	GROUP (Not	included Carbon Film ±5%, or to the Schematic Diagram	1/4W Type. for those Parts.)
IC207	269 0170 005	Optical Out Unit TOTX178		R102,118,	247 0010 961	Chip Carbon 22 kohm 1/10W	RM73B-223J
IC301	262 2319 009	IC HD6433726***F	μ-Com	150			
IC302	262 2071 907	IC BR9040F		R103	247 0010 987	Chip Carbon 27 kohm 1/10W	RM73B-273J
IC502	262 1227 008	IC LC7821		R104	247 0003 949	Chip Carbon 22 ohm 1/10W	RM73B220J
IC601	262 1701 906	IC SAA6579T-T		R105,142,	247 0007 945	Chip Carbon 1 kohm 1/10W	RM738-102J
IC604	263 0905 900	IC BA6208F		146,147			
IC821	263 1004 004	IC BA178M12	Regulator +12V	R106	247 0006 917	Chip Carbon 300 ohm 1/10W	RM73B-301J
IC822	263 1010 001	IC BA178M06	Regulator +6V	R107,109,	247 0005 905	Chip Carbon 100 ohm 1/10W	RM73B-101J
IC851	268 0073 905	IC ICP-N15T	1	116			
				R108	247 0005 976	Chip Carbon 200 ohm 1/10W	RM73B-201J
TR102	275 0051 909	FET 2SK161(GR)		R110,117	247 0006 920	Chip Carbon 330 ohm 1/10W	RM738-331J
TR103,104,	273 0025 926	Transistor 2SC461P (C)		R111	247 0010 945	Chip Carbon 18 kohm 1/10W	RM73B-183J
109		•		R112,154,	247 0009 985	Chip Carbon 10 kohm 1/10W	RM73B-103J
TR105,108,	269 0083 901	Transistor DTA114EK	Builtin Resistor	175,176			
117				R113,	247 0009 985	Chip Carbon 10 kohm 1/10W	RM73B-103J
TR106,111,	273 0384 900	Transistor 2SC2412K (S)		181~183		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
112				R114,247,	247 0009 985	Chip Carbon 10 kohm 1/10W	RM73B-103J
TR107	275 0053 907	FET 2SK365 (BL/GR)		248			
TR113-116	269 0066 902	Transistor DTC323TK	Builtin Resistor	R115,186,	247 0007 945	Chip Carbon 1 kohm 1/10W	RM73B-102J
TR202,206,	269 0082 902	Transistor DTC114EK	Builtin Resistor	221,296			
824				R119	247 0011 960	Chip Carbon 56 kohm 1/10W	RM73B-563J
TR203,204	269 0066 902	Transistor DTC323TK	Builtin Resistor	R120,140,	247 0006 962	Chip Carbon 470 ohm 1/10W	RM73B-471J
TR205	269 0119 901	Transistor DTA124EK	Builtin Resistor	545,546			
TR504,505	269 0091 906	Transistor DTC143TK	Builtin Resistor	R122,205	247 0008 944	Chip Carbon 2.7 kohm 1/10W	RM73B-272J
TR601,602	269 0091 906	Transistor DTC143TK	Builtin Resistor	R123,137,	247 0010 961	Chip Carbon 22 kohm 1/10W	RM73B-223J
TR110,119	273 0384 900	Transistor 2SC2412K(S)		607,608		, , , , , , , , , , , , , , , , , , , ,	
17 E				R125,295	247 0004 980	Chip Carbon 82 ohm 1/10W	RM73B-820J
D107,108,	276 0616 907	Diode 1SS252		R126,249,	247 0010 990	Chip Carbon 30 kohm 1/10W	RM73B-303J
32 1,327				250			
D201,601,	276 0616 907	Diode 1SS252		R127	247 0009 956	Chip Carbon 7.5 kohm 1/10W	RM738-752J
602,854				R130~132,	247 0009 985	Chip Carbon 10 kohm 1/10W	RM73B-103J
D221	276 0553 905	Diode 1SR35-200A		160		,, , , , , , , , , , , , , , , ,	
D318,326,	276 0616 907	Diode 1SS252		R133	247 0011 986	Chip Carbon 68 kohm 1/10W	RM73B-683J
827,828							
		L		L			

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Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
R135,159,	247 0012 927	Chip Carbon 100 kohm 1/10W	RM738-104J	R363~366	247 0011 944	Chip Carbon 47 kohm 1/10W	RM73B-473J
197,199				R367~370	247 0011 944	Chip Carbon 47 kohm 1/10W	RM73B-473J
R136,187	247 0008 928	Chip Carbon 2.2 kohm 1/10W	RM70B-222J	R371-374	247 0011 944	Chip Carbon 47 Kohm 1/10VV	HM738-473J
R138,139	247 0005 989	Chip Carbon 220 ohm 1/10W	RM73B-221J	R375~377	247 0011 944	Chip Carbon 47 kohm 1/10W	RM73B-473J
R145,149,	247 0009 985	Chip Carbon 10 kohm 1/10W	RM73B-103J	R385,	247 0018 905	Chip Carbon 0 ohm 1/10W	RM73B-OROK
151,185				904~906			
R148	247 0012 969	Chip Carbon 150 kohm 1/10W	RM73B-154J	R401, 408,	247 0005 947	Chip Carbon 150 ohm 1/10W	RM738-151J
R152	247 0011 931	Chip Carbon 43 kohm 1/10W	RM738-433J	415,417			
R153,177	247 0009 927	Chip Carbon 5.6 kohm 1/10W	RM73B-562J	R402,409,	247 0005 963	Chip Carbon 180 ohm 1/10W	RM73B-181J
R167~170	247 0009 927	Chip Carbon 5.6 kohm 1/10W	RM73B-562J	416,856			
R171~174	247 0005 992	Chip Carbon 240 ohm 1/10W	RM73B-241J	R403,410	247 0006 904	Chip Carbon 270 ohm 1/10W	RM73B-271J
R178~180	247 0011 944	Chip Carbon 47 kohm 1/10W	RM73B-473J	R404,411,	247 0006 946	Chip Carbon 390 ohm 1/10W	RM73B-391J
R184	247 0018 905	Chip Carbon 0 ohm 1/10W	RM738-OROK	683,684			
R188~190,	247 0012 969	Chip Carbon 150 kohm 1/10W	RM73B-154J	R425~428	247 0011 944	Chip Carbon 47 kohm 1/10W	RM73B-473J
192				R430,440,	247 0018 905	Chip Carbon 0 ohm 1/10W	RM73B—OROK
R191,193,	247 0008 931	Chip Carbon 2.4 kohm 1/10W	RM73B-242J	441			
292,293				R431~434	247 0009 985	Chip Carbon 10 kohm 1/10W	RM73B-103J
R198,206,	247 0009 985	Chip Carbon 10 kohm 1/10W	RM73B-103J	R521,522,	247 0012 927	Chip Carbon 100 kohm 1/10W	RM73B-104J
207				525,526			
R201,	247 0009 985	Chip Carbon 10 kohm 1/10W	RM73B-103J	R523,524,	247 0006 962	Chip Carbon 470 ohm 1/10W	RM73B-471J
261-263				527,528			
R202	247 0004 977	Chip Carbon 75 ohm 1/10W	RM73B-750J	R529,530,	247 0012 927	Chip Carbon 100 kohm 1/10W	RM73B-104J
R203,204	247 0009 985	Chip Carbon 10 kohm 1/10W	RM73B-103J	533,534			
264,265 R209,210	247 0009 930	0: 0		R531,532,	247 0006 962	Chip Carbon 470 ohm 1/10W	RM73B-471J
661,662	247 0009 930	Chip Carbon 6.2 kohm 1/10W	RM738-622J	535,536			
R222~225	247 0009 985	Chin Carbon 10 kahm 1/1/04/	PM729 1021	R539,540,	247 00059 05	Chip Carbon 100 ohm 1/10W	RM73B-101J
R241,242	247 0009 985	Chip Carbon 10 kohm 1/10W Chip Carbon 47 kohm 1/10W	RM738-103J	593,594	242 2040 202	a: a	
260	247 0011 344	Chip Carbon 47 konin 1/1044	RM73B-473J	R541~544	247 0012 927	Chip Carbon 100 kohm 1/10W	RM738-104J
R243-246	247 0009 985	Chip Carbon 10 kohm 1/10W	PM72B 1021		247 0014 925	Chip Carbon 680 kohm 1/10W	RM738-684J
R251 252	247 0007 903	Chip Carbon 680 ohm 1/10W	RM73B-103J RM73B-681J	R585,586 R587~590	247 0013 984 247 0012 927	Chip Carbon 470 kohm 1/10W	RM738-474J
405,412	247 0007 303	Chip Caroon 060 Onin 171044	NW73B-0813	R595,596	247 0012 927	Chip Carbon 100 kohm 1/10W Chip Carbon 100 ohm 1/10W	RM738-104J
R253,254,	247 0005 905	Chip Carbon 100 ohm 1/10W	RM73B-101J	R599	247 0009 901	Chip Carbon 4.7 kohm 1/10W	RM736-101J RM738-472J
537,538	1 47 0000 000	Cinp Carbon 100 Cinii 1/1014	1110730-1013	R601,602	247 0010 974	Chip Carbon 24 kohm 1/10W	RM73B-243J
R291	247 0005 947	Chip Carbon 150 ohm 1/10W	RM73B-151J	R603,604,	247 0009 985	Chip Carbon 10 kohm 1/10W	RM73B-103J
∆ R298,778,	244 2051 929	Metal Oxide 820 ohm 1W(NB)	RS14B3A821JNBS(S)	657,658	247 0009 303	Chip Carbon To Konin 1/1044	NW1/36-1033
791,792			Catabas	R605,606	247 0005 989	Chip Carbon 220 ohm 1/10W	RM73B-221J
R301~304	247 0007 945	Chip Carbon 1 kohm 1/10W	RM73B-102J	R609,610	247 0011 928	Chip Carbon 39 kohm 1/10W	RM73B-393J
R325	247 0014 967	Chip Carbon 1 Mohm 1/10W	RM73B-105J	R611~614	247 0007 945	Chip Carbon 1 kohm 1/10W	RM73B-102J
R326	247 0011 944	Chip Carbon 47 kohm 1/10W	RM738-473J	R615,616,	247 0014 967	Chip Carbon 1 Mohm 1/10W	RM73B-105J
R342	247 0009 985	Chip Carbon 10 kohm 1/10W	RM73B-103J	663,664			
R351~354	247 0011 944	Chip Carbon 47 kohm 1/10W	RM73B-473J	R665,666	247 0010 903	Chip Carbon 12 kohm 1/10W	RM73B-123J
R355~358	247 0011 944	Chip Carbon 47 kohm 1/10W	RM738-473J	R681,682	247 0008 957	Chip Carbon 3.3 kohm 1/10W	RM73B-302J
R359~362	247 0011 944	Chip Carbon 47 kohm 1/10W	RM73B-473J				
					L		

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
R685,686,	247 0018 905	Chip Carbon 0 ohm 1/10W	RM73B-OROK	C139,161,	254 4252 930	Electrolytic 100µF/10V	CE04W1A101M (SME)
691,692				205			
R695,	247 0018 905	Chip Carbon 0 ohm 1/10W	RM73B-OR0K	C140,141	257 0016 933	Chip Ceramic 15pF/50V	CC73CH1H150J
901~903				C142,171,	257 0012 966	Chip Ceramic 0.01µF/50V	CK73F1H103Z
AR775	244 2051 974	Metal Oxide 1 kohm (W(NB)	R\$14B3A102JNBS(\$)	323,329			
				C144,164	257 0004 961	Chip Ceramic 100pF/50V	CC73SL1H101J
VR102	211 6095 952	Semi Fixed Resistor 100 kohm	V06QB104	C147	254 4260 935	Electrolytic 0.47µF/50V	CE04W1HR47M (SME)
VR103	211 6093 970	Semi Fixed Resistor 100 kohm	V06PB104	C150,251	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M (SME)
VR601,602	211 9135 000	Variable Resistor 50 kohm	V1420P25FB503K	C153,154,	257 0005 986	Chip Ceramic 330pF/50V	CC73SL1H331J
VR603	211 9136 009	Variable Resistor 50 kohm	V11P25FW503-	535			
VR604	211 9137 008	Variable Resistor 100 kohm	V1620V20FB104T	C155,156	257 0009 924	Chip Ceramic 2200pF/50V	CK73B1H222K
				C158,159,	254 4260 951	Electrolytic 2.2µF/50V	CE04W1H2R2M (SME)
CAPACITO	RS GROUP			165			
C101~104	257 0012 966	Chip Ceramic 0.01µF/50V	CK73F1H103Z	C162,163	257 0016 962	Chip Ceramic 27pF/50V	CC73CH1H270J
C105,106,	257 0012 966	Chip Ceramic 0.01µF/50V	CK73F1H103Z	C166,168,	254 4252 927	Electrolytic 47μF/10V	CE04W1A470M (SME)
111,128				172			
C107,108,	257 0012 982	Chip Ceramic 0.022µF/50V	CK73F1H223Z	C167	257 0006 943	Chip Ceramic 560pF/50V	CC73SL1H561J
110	-			C201,291,	254 4254 954	Electrolytic 220μF/16V	CE04W1C221M (SME)
C109,120,	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M (SME)	855			
149,160				C202,254,	257 0012 966	Chip Ceramic 0.01µF/50V	CK73F1H103Z
C112,222,	257 0002 921	Chip Ceramic 10pF/50V	CC73SL1H100D	587,588			
223				C204,207,	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M (SME)
C113	257 0003 946	Chip Ceramic 33pF/50V	CC73SL1H330J	208			
C114,121,	254 4260 964	Electrolytic 3.3µF/50V	CE04W1H3R3M (SME)	C206,209,	257 0012 966	Chip Ceramic 0.01µF/50V	CK73F1H103Z
148				210,285			
C115	254 3056 933	Electrolytic 3.3µF/50V	CE04D1H3R3MBP (SME)	C221,262,	257 0012 966	Chip Ceramic 0.01µF/50V	CK73F1H103Z
C116,127,	257 0007 900	Chip Ceramic 1000 PF/50V	CC73SL1H102J	293,536			
249,250				C224,226	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M (SME)
C117	257 0009 982	Chip Ceramic 6800pF/50V	CK73B1H682K	C225,247,	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M (SME)
C118	257 1013 977	Chip Ceramic 0.068µF/50V	CK73B1E683K	248,253			
C122,143,	254 4260 977	Electrolytic 4.7µF/50V	CE04W1H4R7M (SME)	C227,229,	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M (SME)
145				230,233			
C123,125,	257 0012 982	Chip Ceramic 0.022µF/50V	CK73F1H223Z	C228,231,	257 0014 935	Chip Ceramic 0.1µF/50V	CK73F1E104Z
129,133				232,260			
C126,136,	254 4254 938	Electrolytic 47μF/16V	CE04W1C470M (SME)	C243~246	257 0005 986	Chip Ceramic 330pF/50V	CC73SL1H331J
151,157				C252,651,	257 0012 966	Chip Ceramic 0.01µF/50V	CK73F1H103Z
C130,169,	257 0003 933	Chip Ceramic 30pF/50V	CC73SL1H300J	745,746			
170				C292	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M (SME)
C131	257 0002 992	Chip Ceramic 20pF/50V	CC73SL1H200J	C585,586			
C132,135,	257 0012 966	Chip Ceramic 0.01µF/50V	CK73F1H103Z	C330	254 4302 974	Electrolytic 100μF/10V	CE04W1A101M (SRE)
138,326				C351	254 4299 906	Electrolytic 10μF/16V	CE04W1C100M (SRE)
C134	254 3056 917	Electrolytic 1µF/50V	CE04D1H010MBP (SME)	C613,614			
C137	254 4254 941	Electrolytic 100µF/16V	CE04W1C101M (SME)	C517,599,	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M (SME
				833			

Ref. No.	Part No.	Part Name	Remarks		Ref. No.	Part No.	Part Name	Remarks	a
C521~524	257 0005 928	Chip Ceramic 180pF/50V	CC73SL1H181.	1	X101	399 0075 003	Crystal (7.2MHZ)	X-TAL	1
C525~528	257 0005 928	Chip Ceramic 180pF/50V	CC73SL1H181.	J				(7.2MHZ)	
C529,530	257 0005 944	Chip Ceramic 220pF/50V	CC73SL1H221.	j	X102	399 0178 007	Crystal (4.332MHZ)	X-TAL	1
C555	256 1034 937	Plastic Film 0.047µF/50V	CQ93A1H473J					(4.332MHZ)	1
C545~548	257 0012 966	Chip Ceramic 0.01µF/50V	CK73F1H103Z		CF101	261 0141 001	FM Ceramic Filter	SK107M2-A0-20	1
C570-573	257 0012 966	Chip Ceramic 0.01µF/50V	CK73F1H103Z		CF102	261 0142 000	FM Ceramic Filter	SK107MG-A0-20	1
C581,582	254 4260 977	Electrolytic 4.7µF/50V	CE04W1H4R7M (SN	(E)	CF104	261 0101 009	AM Ceramic Filter	BFU450C4N	
C583,584	257 0005 902	Chip Ceramic 150pF/50V	CC73SL1H151.	,	CF105	261 0103 007	Ceramic Resonator	CSB456F11	
C601,602	255 1264 937	Plastic Film 0.0018µF/50V	CQ93M1H182J (B)	JK101	205 0847 004	3P Ant.Terminal(PAL/F)	3P ANT.	1
C603~606	255 1265 978	Plastic Film 0.022µF/50V	CQ93M1H223J (B)				TERM (PAL/F)	
C607,608	254 4305 968	Electrolytic 1µF/50V	CE04W1H010M (SR	E)	JK501,502	204 8545 004	4P Pin Jack(GND)	4P PIN	2
C609~612	257 0005 944	Chip Ceramic 220 PF/50V	CC73SL1H221	,				JACK (GND)	-
C615,616,	257 00T2 966	Chip Ceramic 0.01µF/50V	CK73F1H103Z						
798,828					ACB21	205 0581 001	2P VH Connector Base		1
C652	254 4252 927	Electrolytic 47µF/10V	CE04W1A470M (SN	E)	CB31	205 0355 033	3P KR Connector Base (L)		1
C661,662	255 1265 994	Plastic Film 0.033µF/50V	CQ93M1H333J (B)	CB37	205 0190 036	3P NH Connector Base		1
C663,664	255 1264 924	Plastic Film 0.0015µF/50V	CQ93M1H152J (B)					
C821~824	253 1181 904	Ceramic 0.01µF/50V	CK45F1H103Z (DD	-3)	CB51	205 0343 058	5P Connector Base(KR-PH)		1
C825	254 4256 790	Electrolytic 2200µF/25V	CE04W1E222MC (S	ME)	CB52	205 0355 059	5P KR Connector Base (L)		1
C854,826	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M (SM	E)	CB54	205 0829 051	5P CT Connector Base		1
C881	254 4255 717	Electrolytic 4700µF/16V	CE04W1C472MC (SM	(B)	CB81	205 0355 088	8P KR Connector Base (L)		1
C990	253 8014 702	Ceramic 0.01µF/250V	CK45F2GAC103M	С	CB91	205 0355 091	9P KR Connector Base (L)		1
					CB231	205 0990 003	23P FFC Connector Base		1
OTHER GR	OUP			Q'ty					
L201	235 0049 900	Inductor	BEADS	1	CN31	203 4945 003	3P KR-DA Connector Cord		1
			INDUCTOR TAPE		CN32	203 4946 015	3P KR-DA Connector Cord		1
L219	235 0080 901	Inductor	INDUCTOR	1	CN36	203 4946 028	3P KR-DA Connector Cord		1
			(3R3) ST		CN38	203 5133 021	3P KR-DA Shell Cord		1
SW301	212 5604 907	Tact Switch	TACT SWITCH-	1	CN41	203 6421 004	4P KR-DA Connector Cord		1
			TA (ALPS)		CN51	203 8474 004	5P PH-SAN Shield Cord		1
SW304.	212 5604 907	Tact Switch	TACT SWITCH-	4	CN52	203 8475 003	5P PH-SAN Connector Cord		1
311-313			TA (ALPS)		CN62	204 0411 000	6P KR-DA Connector Cord		1
CF107	399 0041 901	Ceramic Resonator	CSA4.00MG	1	CN81	204 2612 043	8P KR-DA Connector Cord		1
CF322	399 0191 903	Ceramic Resonator	CST4.00MGW-	1	CN91	204 2613 055	9P KR-DA Connector Cord		1
			TF01		CN111,112	205 0805 059	11P Connector Socket (9176)		2
SW314,315,	212 5604 907	Tact Switch	TACT SWITCH-	4	CN121	205 0987 003	12P Connector Socket (9176)		1
319,320			TA (ALPS)		CN131	205 0987 029	13P Connector Socket(9176)		1
SW302,303,	212 5606 905	Tact Switch	TACT SWITCH-	4	CN291	205 0990 045	29P FFC Connector Base		1
305,306			TA (H9.5)						
SW307,310,	212 5606 905	Tact Switch	TACT SWITCH-	4	ΔACT	203 3961 004	1P. AC Outlet(E2)		1
318,321			TA (H9.5)		∆AC2	203 2349 009	2P Inlet	A DIANA	
SW651,701,	212 1140 009	Push Switch(ESB6440)	Push SW	3	ΔET	206 1075 014	Fuse (1.25A)	P (0)	
702			(ESB6440)		ΔF2	206 1075 043	Fuse (2.5A)		1
					FE101	216 9013 004	FM Front END (U) S	Action and the state of the state of	18

KU-9359 MAIN UNIT ASS'Y PARTS LIST

Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks
FL301	393 9561 002	VFD(11-BT-150GK)		1	SEMICONE	OUCTORS GROU	JP	
HP701	204 8364 007	Headphone Jack		1	IC701	263 0615 902	IC BA15218F	
LP102,103	232 9011 008	Low Pass Filter		2	IC850	263 1040 903		
LP101	232 9010 009	Antibirdie Filter		1				
∆RL1	214 0170 005	Relay(TV-8)		1	TR701,702,	273 0235 923	Transistor 2SC1841(E/F)	
RM301	499 0150 008	Remocon Sensor	SBX1610-52	1	709,710			
T101	231 2909 004	FM IF Det		1	TR703,704,	271 0131 924	Transistor 2SA988(E/F)	
T103	231 3904 008	AM IFT		,	707,708			
T104	231 1913 004	MW Ant-Osc Coil		1	TR705,706	273 0198 905	Transistor 2SC1815(Y)	
∆T2	239 8019 002	Line Filter Coil		1	TR705~708	276 0619 904	Diode 1SS2471	
TR855	274 0120 002	Transistor 2SD1762(E/F)	ta ku ini ni	1		274 0060 900	Transistor 2SD667A(C)	
XL201	399 0112 005	Crystal(16.9344MHz)		1			Transistor 2SB467(C)	
					TR719,720	273 0235 923	Transistor 2SC1841(E/F)	
	009 9037 013	1P Wire Assy		1	TR721	271 0131 924	Transistor 2SA988(E/F)	
		1P Wire Assy		1	TR724,723,	273 0384 900	Transistor 2SC2412K(S)	
	202 0040 909	FUSE CLIP (TAPE)		4	730			
	461 9086 000	RUBBER SHEET		2	TR725	271 0238 908	Transistor 2SA1037K(S/R)	
					TR726~729	269 0099 908	Transistor DTC143TS	Builtin Resistor
					TR801	271 0280 901	Transistor 2SA1038S(S/E)	
					TR802	273 0432 904	Transistor 2SC2389S(S/E)	
					TR803,807,	273 0388 906	Transistor 2SC1740S(E)	
					825			
					TR805	274 0151 903	Transistor 2SD2004(P)	
					TR806	272 0107 919	Transistor 2SB1328(P/Q)	
					TR808	271 0192 905	Transistor 2SA933S(S)	
					TR821	271 0279 909	Transistor 2SA1515(R)	
					TR822,831,	269 0082 902	Transistor DTC114EK	Builtin Resistor
					832			
					TR826	272 0131 901	Transistor 2SB1041(R)	
					TR827	273 0388 906	Transistor 2SC1740S(E)	
					TR850~853	269 0083 901	Tarssor DTA:14EK	Builtin Resistor
					TR854	269 0091 906	Transistor DTC143TK	Builtin Resistor
					∆ D801	276 0338 007	Diode S4VB20F	Bridge 33
•					D802, 852,	276 0553 905	Diode 1SR35-200A	**
					853			
					D830,833,	276 0616 907	Diode 1SS252	
					834,838			
					D831	276 0553 905	Diode 1SR35-200A	
					D850		Diode 1SS252	
					D701~704	276 0616 907	Diode 1SS252	
					D709,710	276 0616 907		
					11	276 0616 907	į.	

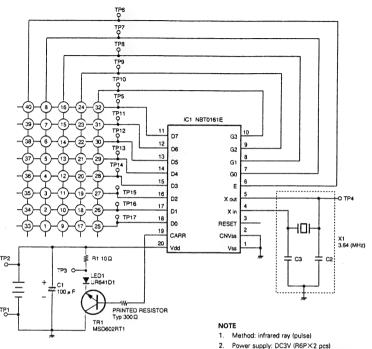
Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
ZD803.804	276 0637 902	Zener Diode MTZJ6.2A	6V	C713~716	253 4536 909		CC45SL1H1000 (DD-3)
ZD832	276 0643 967	Zener Diode MTZJ4.3A		11			CC455L1H1000 (DD-3)
ZD835	276 0634 905	Zener Diode MTZJ4.3A	4.1V 3.3V	C717~720	1		CF93A1H104J
ZD836	276 0645 949	Zener Diode MTZJ27A	25V	11	254 4260 948		CE04W1H010M (SME)
ZD860,861	276 0637 902			C723,724,	255 1265 978	Plastic Film 0.022µF/50V	CQ93M1H223J (B)
20000,801	2/6 063/ 902	Zener Diode MTZJ6.2A	6V	727,728			
	(3)	land dad Carbon 511 - 150		C725,726	256 1034 979	Metalized Film 0.1µF/50V	CF93A1H104J
RESISTOR		t included Carbon Film ±5%, er to the Schematic Diagram		C729-732	254 4262 904	Electrolytic 4.7µF/63V	CE04W1J4R7M (SME)
R701,702	247 0012 969	Chip Carbon 150 kohm 1/10W	RM73B-154J	C733	255 1265 936	Plastic Film 0.01µF/50V	CQ93M1H103J (B)
R703~706	247 0005 905	Chip Carbon 100 ohm 1/10W	RM73B-101J	C734	254 4250 945	Electrolytic 330µF/6.3V	CE04W0J331M (SME)
R707,708	247 0010 916	Chip Carbon 13 kohm 1/10W	RM73B-133J	C735~738	255 1265 907	Plastic Film 0.0068µF/50V	CQ93M1H682J (B)
ΔR709,710,	241 2379 932	Carbon Film 620 ohm 1/4W(NB)	RD14B2E621JNBS	C739,740,	257 0006 985	Chip Ceramic 820 PF/50V	CC73SL1H821J
723,724				C763,809,	257 0012 966	Chip Ceramic 0.01µF/50V	CK73F1H103Z
∆ R731~734	241 2377 989	Carbon Film 150 ohm 1/4W(NB)	RD14B2E151JNBS	C810,856			
△ R735,736	241 2378 920	Carbon Film 220 ohm 1/4W(NB)	RD1482E221JNBS	C741	254 4252 927	Electrolytic 47µF/10V	CE04W1A470M (SME)
▲R737~740	244 2055 912	Metal Oxide 0.47 ohm 1W(NB)	RS1483AR47JINBS (S)	C751,752,	257 0012 966	Chip Ceramic 0.01µF/50V	CK73F1H103Z
▲R741~744	244 2055 912	Metal Oxide 0.47 ohm 1W(NB)	RS1483AR47JNBS (S)	755,756			
▲ R759,760	244 2051 987	Metal Oxide 0.47 ohm 1W(NB)	RS1483A4R7JNBS (S)	C753,754	254 4258 918	Electrolytic 10µF/35V	CE04W1V100M (SME)
▲R761,762	244 2043 937	Metal Oxide 10 ohm 1W(NB)	RS1483A100JNBS (S)	C757~760	257 0012 966	Chip Ceramic 0.01µF/50V	CK73F1H103Z
▲ R765,766,	244 2055 941	Metal Oxide 330 ohm 1W(NB)	RS1483A331JN8S (S)	C761,762,	257 0012 966	Chip Ceramic 0.01µF/50V	CK73F1H103Z
769,770				764.830		,	
▲R767,778	244 2051 974	Metal Oxide 1 kohm 1W(NB)	RS1483A102JNBS (S)	C768,841	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M (SME)
R773,838,	247 0009 985	Chip Carbon 10 kohm 1/10W	RM73B-103J	C800.838	254 4260 948	Electrolytic 1µF/50V	CEO4W1H010M (SME)
851				C801	256 1042 903	Metalized Film 0.1µF/250V	
R774	247 0010 929	Chip Carbon 15 kohm 1/10W	RM73B-153J	C803~806	256 1042 932		CF93A2E104K
∆ R776,777	244 2050 959	Metal Oxide 270 ohm 1W(NB)	RS1483A271JNBS (S)	C807,808	254 4355 002	Metalized Film 0.01μF/250V	CF93A2E103K
	241 2387 940	Carbon Film 4.7 ohm 1/4W(NB)	RD1482E4R7JNBS	C811~814		Electrolytic 6800µF/50V	CE04W1H682MDL
R820,854,	247 0009 985	Chip Carbon 10 kohm 1/10W	RM73B-1031		254 4258 918	Electrolytic 10µF/35V	CE04W1V100M (SME)
858.859	247 0003 303	Crip Carbon 10 Konin 1/1044	HW/73B=1033	C831	259 0007 702	Back up Cap 8.2mF/5.5V	SB CAP==822=C
R823,836,	247 0007 945	Chip Carbon 1 kohm 1/10W	D14700 4004		253 9037 908	Ceramic 0.1µF/50V	CK45=1H104Z (BC)
837.857	247 0007 343	Chip Carbon 1 Kohim 1/1044	RM73B-102J	C835,840	253 1181 904	Ceramic 0.01µF/50V	CK45F1H103Z (DD-3)
	241 2277 047	Codes Files 200 ob - 1 (MAININ)		C836	254 4261 921	Electrolytic 100µF/50V	CE04W1H101M (SME)
	241 2377 947 247 0008 928	Carbon Film 100 ohm 1/4W(NB)	RD1482E101JNBS	C837	254 4260 993	Electrolytic 22µF/50V	CE04W1H220M (SME)
		Chip Carbon 2.2 kohm 1/10W	RM73B-221	C839		Electrolytic 2.2µF/50V	CE04W1H2R2M (SME)
	247 0010 961	Chip Carbon 22 kohm 1/10W	RM73B-223J	C850,851		Chip Ceramic 0.1µF/50V	CK73F1E104Z
R855	247 0008 960	Chip Carbon 3.3 kohm 1/10W	RM73B-332J	C852	254 4250 932	Electrolytic 220µF/6.3V	CE04W0J221M (SME)
\/D76:				C853	254 4252 901	Electrolytic 22µF/10V	CE04W1A220M (SME)
VR701,702	211 6093 912	Semi Fixed Resistor 47 kohm	V06PB472	C857	254 4260 977	Electrolytic 4.7µF/50V	CE04W1H4R7M (SME)
CAPACITOR	RS GROUP			OTHER GR	OUP		Q'ty
C701,702	254 4260 948	Electrolytic 1uF/50V	CE04W1H010M (SME)	L701,702	235 0104 007	Inductor (1µH)	2
C703,704,	257 0004 961	Chip Ceramic 100pF/50V	CC73SL1H101J				
711,712				JK701	205 0484 001	8P SP Terminal(E2)	1
C705,706	257 0006 927	Chip Ceramic 470pF/50V	CC73SL1H471J	JK801	204 8421 005	Mini Jack	1
		51 1 100 FM81	CTO HAM ALOUA COLOR				
C707,708	254 4252 930	Electrolytic 100µF/10V	CE04W1A101M (SME)	1	Į.		1 1

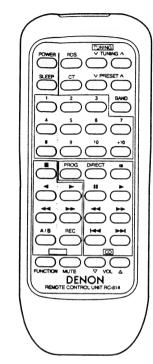
Ref. No.	Part No.	Part Name	Remarks	Qʻi
CB34,38	205 0343 032	3P Connector Base(KR-PH)		1
CB41	205 0343 045	4P Connector Base(KR-PH)		1
CB53	205 0653 052	5P NH Connector Base		1
CB62	205 0343 061	5P Connector Base(KR-PH)		1
CB111,112	205 0806 058	11P Connector Base(9115)		2
CB121	205 0988 002	12P Connector Base(9115)		1
CB131	205 0988 028	13P Connector Base(9115)		1
CB291	205 0990 045	29P FFC Connector Base		1
CN34	203 4946 028	3P KR-DA Connector Cord		1
RL701,702	214 0154 005	Reray(VB24SMBV)		2
₹L703	214 0127 003	Reray(RY-12W)		1
ST1~3	205 0452 017	Style Pin		3
TH701	279 0034 041	Posistor PTH9M04BD		1
		222TS2F333		
TP701,702	205 0190 036	3P NH Connector Base		2
	415 0309 055	P.V.C. TUBE (L=07)		2
ļ				
			l	_

REMOTE CONTROL UNIT (RC-814:Part NO.399 9054 009)

5 3 6

• Schematic Diagram





- 3. Packing method: used the palyester bag.
- 4. No defects on visible area be acceptable visible area like scratches.
- 5. Details: refer to the Specification.
- 6. This compornent part is EUR644355 by Matsuhita Equivalent Compornents Co" Ltd or the Equivalent.

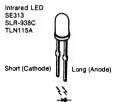
Transistors

2SD1781K or 2SD596



1 B (Base)
2 C (Collector)
3 E (Emitter)





DAP202K HSM2836CTR



D1 (Tuner mode): The D1 code is to be sent after sending the BAND (K30) button and after D2 (CD mode): The D2 code is to be sent after sending DIRECT (K03) or PROGRAM (K02).

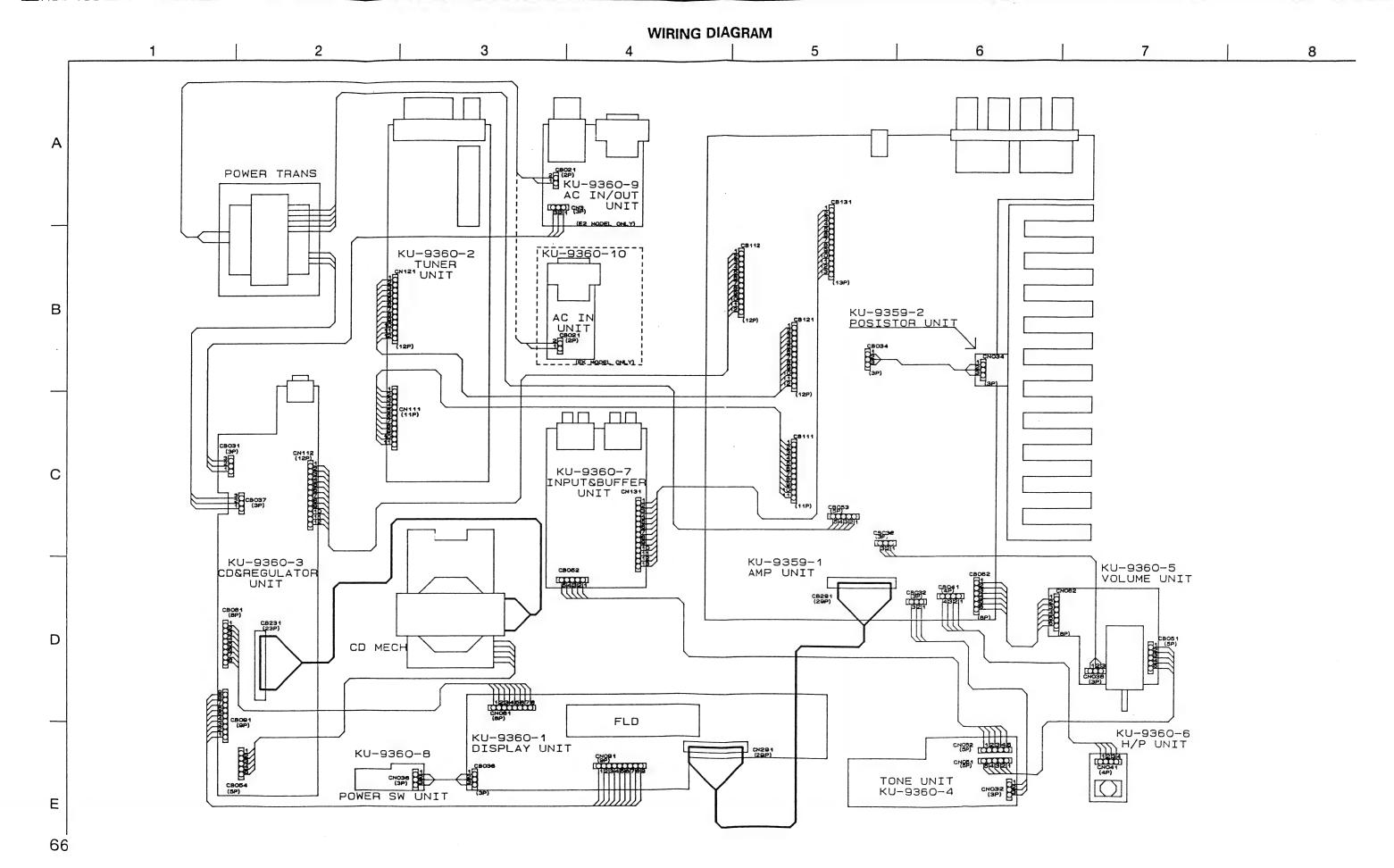
	KEY NO.	FUNCTION	D1 C1 C15	D2 C1 C15
	K05	POWER	001100000101000	001100000101000
	K37	SLEEP	001100100111000	001100100111000
	K36	FUNCTION	001101111101000	0011011111101000
	K04		000100111101000	000100111101000
	K25	<u> </u>	000100011101000	000100011101000
	K17	11	000101011101000	000101011101000
*	K18	44	000101101101000	000101101101000
*	K26	>>	000100101101000	000100101101000
	K19	144	000101001101000	000101001101000
	K27	>> 1	000100001101000	000100001101000
	K38	1	001100100001000	000100100001000
	K14	2	001101100001000	000101100001000
	K22	3	001100010001000	000100010001000
	K03	DIRECT	000101110101000	0001011110101000
	K39	4	001101010001000	000101010001000
	K15	5	001100110001000	000100110001000
	K23	6	001101110001000	000101110001000
1	K02	PROG	000101011001000	000101111001000
- 1	K31	7	001100001001000	000100001001000
1	K40	8	001101001001000	000101001001000
ŀ	K16	9	001101100011000	000100101001000
ŀ	K35	A/B	001001100101000	001001100101000
ŀ	K24	10	001100010011000	000101101001000
ı	K32	+10	001101111011000	000100011001000
ŀ	K30	BAND	001101110101100	001101110101100
*	K07	TUNING V	001100101101100	001100101101100
*	K08	TUNING ^	001101001101100	001101001101100
ŀ	K13	СТ	001101100101100	001101100101100
ı	K06	RDS	001100100101100	001100100101100
ı	K21	PRESET V	001101111001000	001101111001000
ı	K29	PRESET ^	001100111001000	001100111001000
ı	K33	4	001001110101000	001001110101000
1	K09	>	001000011101000	001000011101000
ŀ	K34	44	001001101101000	001001101101000
ı	K10	>>	001000101101000	001000101101000
- 1	K10		001000111101000	001000111101000
ŀ	K11	● REC	00100111101000	00100111101000
ŀ	K12	MUTE	001101101001000	001101101001000
*	K20	VOLUME ♥	001100011001000	001100011001000
*	K28	VOLUME A	001101011001000	001101011001000
	* The data		tinuously while each of the following	
-	- IIII GALA	in to be sent con	minoral willie each of the tollowin	g outtons is depressed: k07, k08,

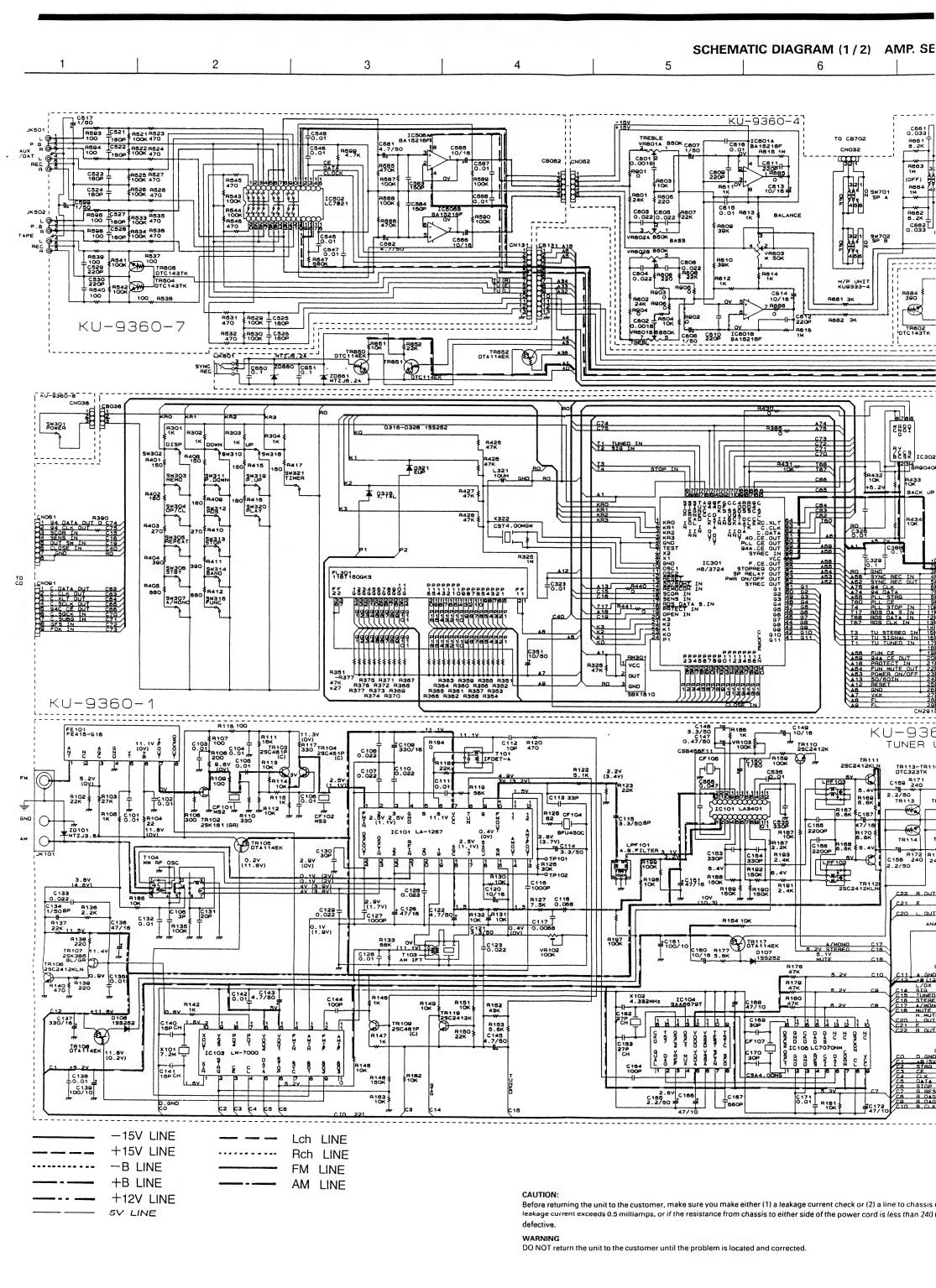
K18, K20, K26, and K28.

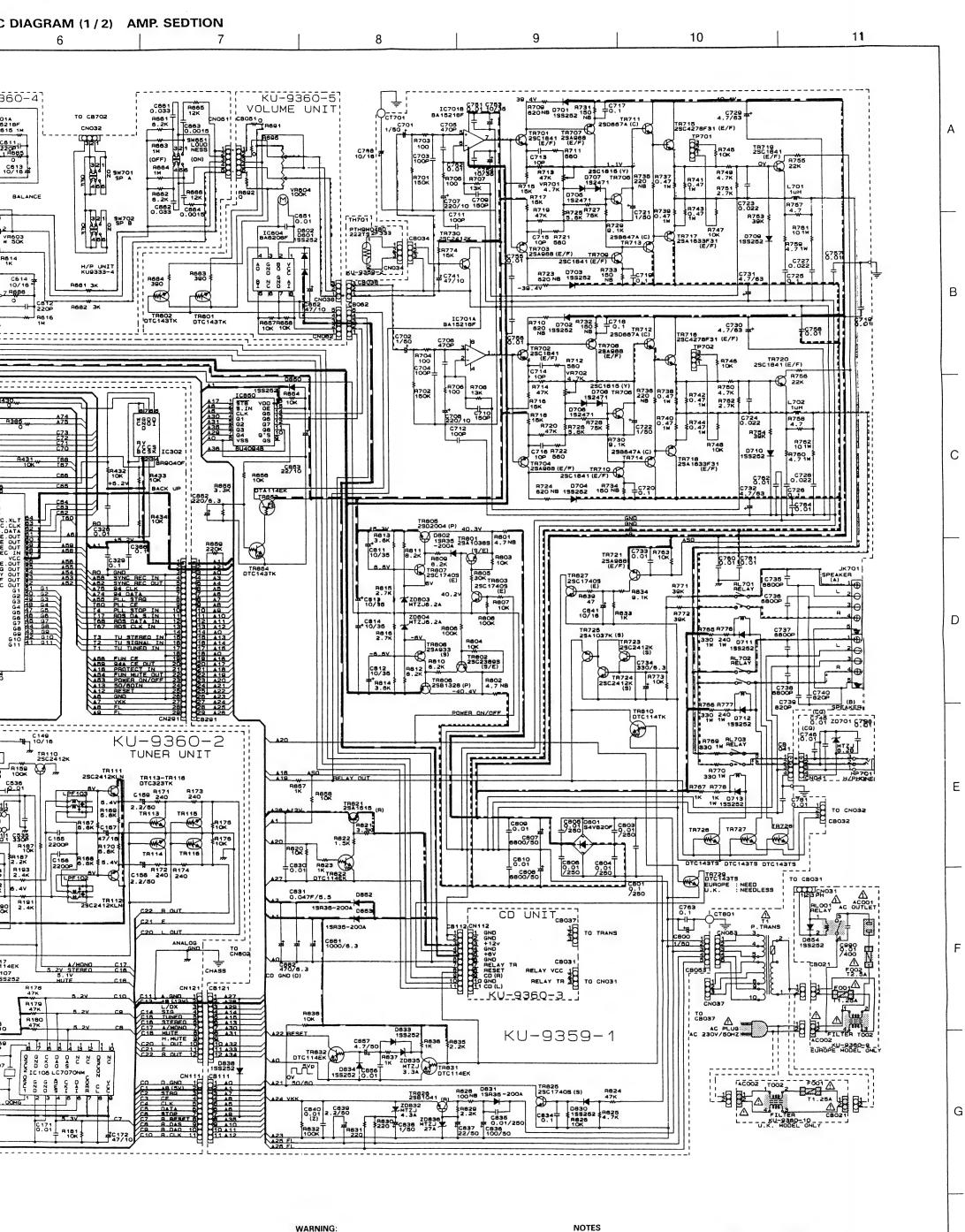
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С

D







sis to either side of the power cord is less than 240 kohms, the unit is

nd corrected

(1) a leakage current check or (2) a line to chassis resistance check. If the

WARNING:

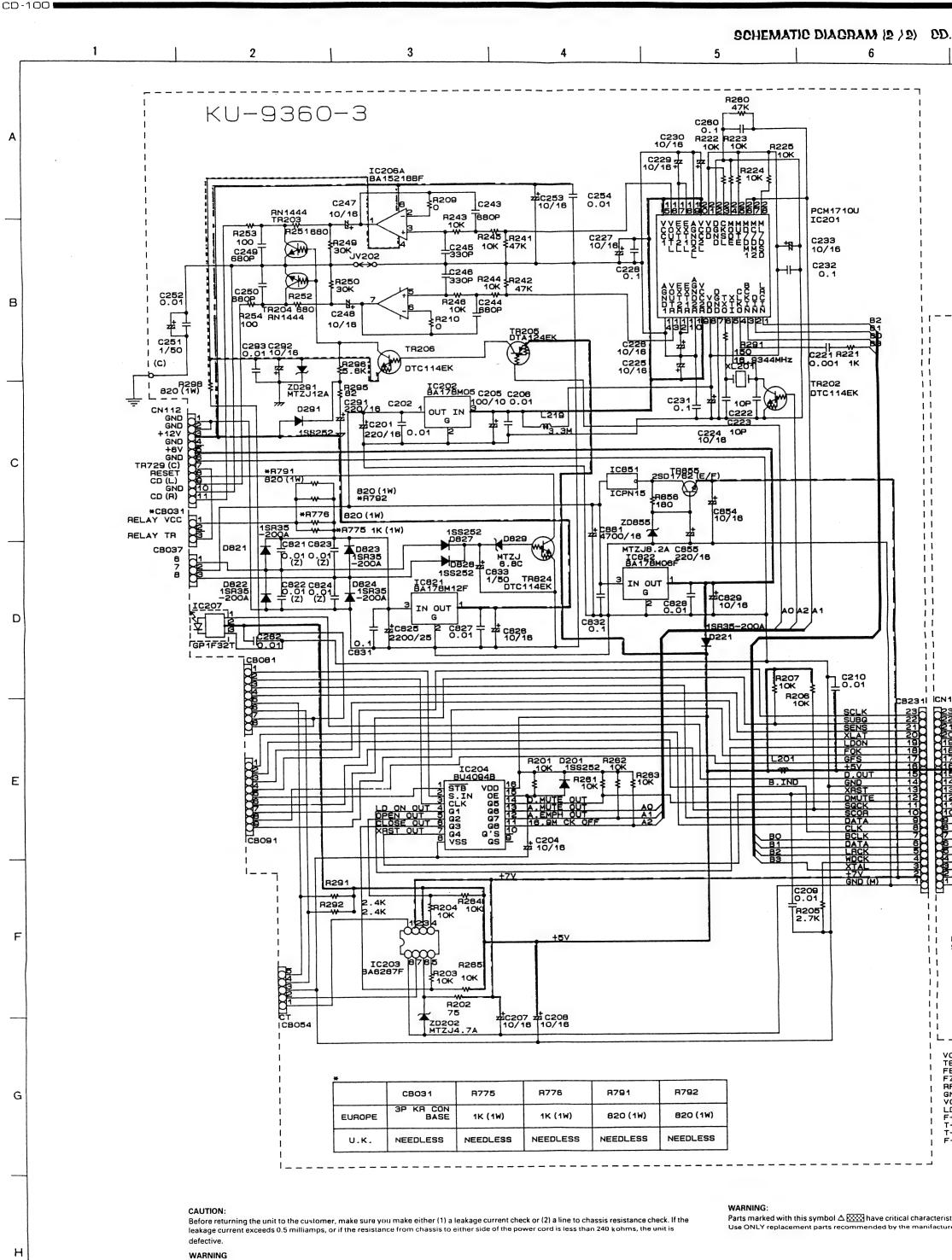
Parts marked with this symbol \triangle the critical characteristics. Use ONLY replacement parts recommended by the manifacturer.

ALL RESISTANCE VALUES IN OHM K=1,000 OHM M=1,000,000 OHM ALL CAPACITANCE VALUES IN MICRO FARAD P=MICRO-MICRO FARAD EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION. CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

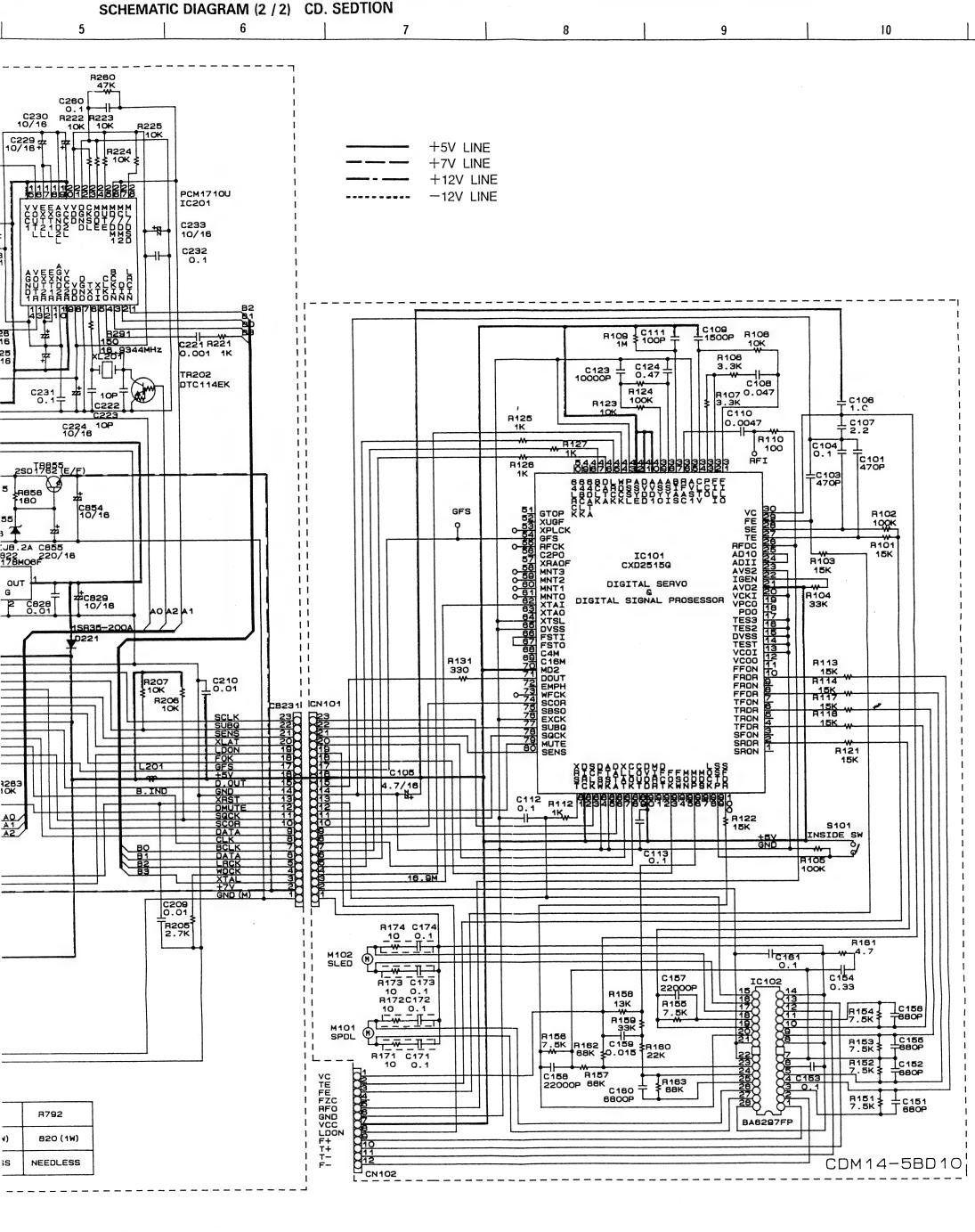
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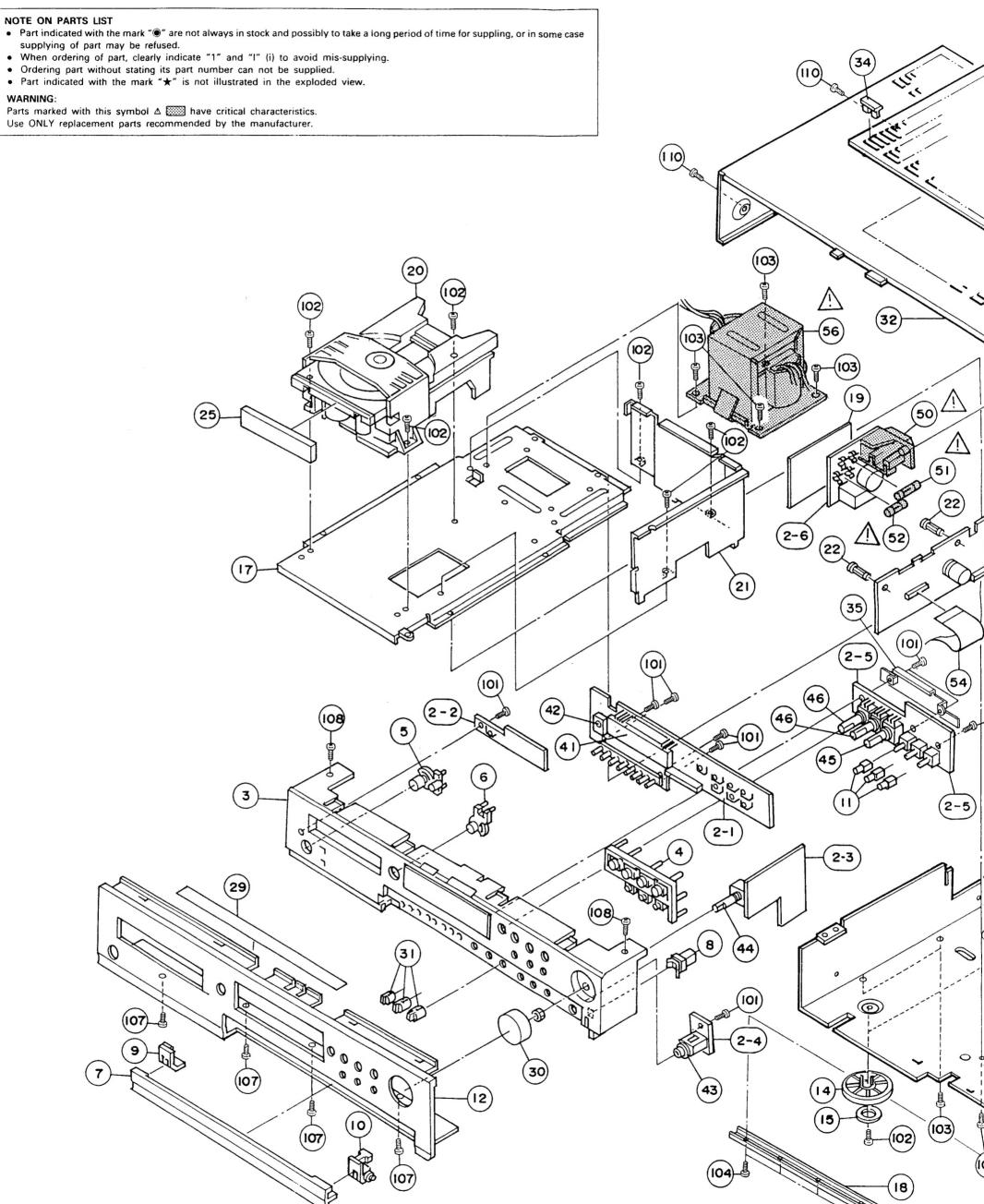
DO NOT return the unit to the customer until the problem is located and corrected.

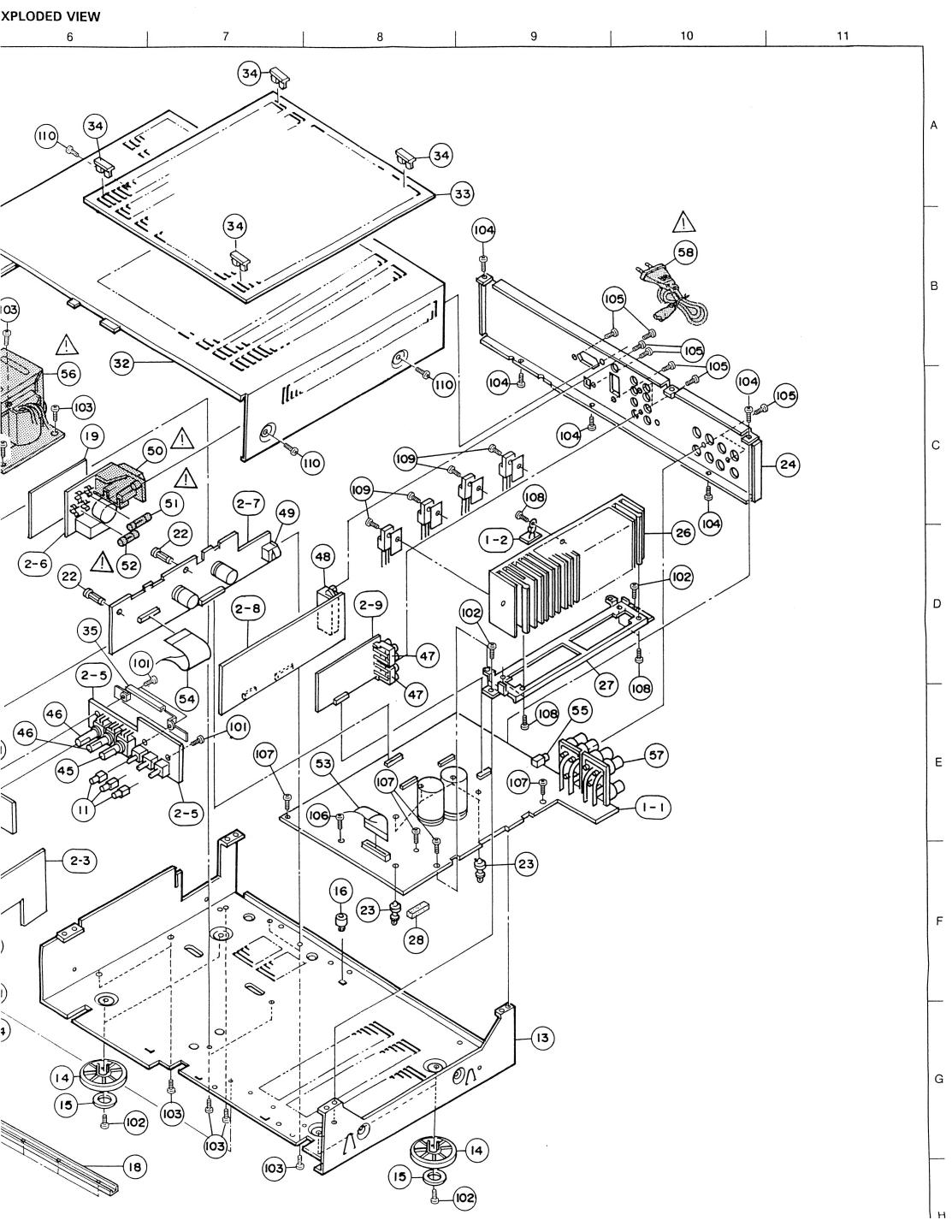


e check. If the

the unit is

EXPLODED VIEW 5 6 NOTE ON PARTS LIST Part indicated with the mark "⊕" are not always in stock and possibly to take a long period of time for suppling, or in some case supplying of part may be refused. • When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying. Ordering part without stating its part number can not be supplied.
Part indicated with the mark "★" is not illustrated in the exploded view. (110)





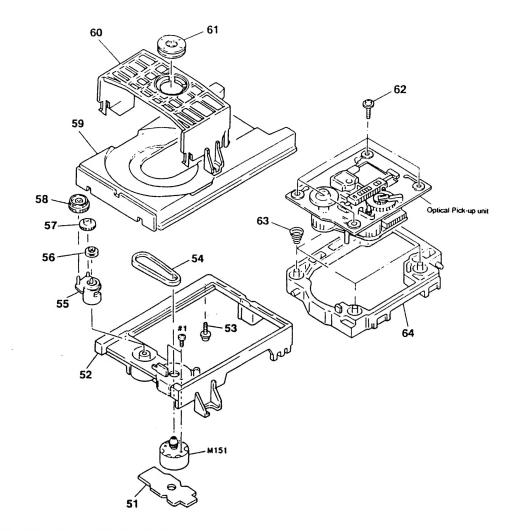
PARTS LIST EXPLODED VIEW

tet.	No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	0
•	1	KU- 9359	Amp unit ass'y		1	33	414 0789 122	Sefty cover	Gold model	
	1-1	KU- 9359 -1	Amp unit				414 0789 119	Sefty cover	Black model	
1	1-2	KU- 9359 -2	Posistor unit			34	449 0139 008	Cover holder		
	2	KU- 9360	TU-CD unit ass'y		1	35	414 9204 006	Shield cover (tone)		
1	2-1	KU- 9360 -1	Display unit			41	393 9561 002	VFD (11-BT-150GK)	FL301	
.	-2-2	KU- 9360 -8	Power sw. unit			42	499 0150 008	SBX1610-52	RM301	
	2-3	KU- 9360 -5	Volume unit			43	204 8364 007	H/P jack	HP701	
11	2-4	KU- 9360 -6	H/P unit			44	211 9137 008	V1620V20FB104T	VR604	
4	2-5	KU- 9360 -4	Tone unit			45	211 9136 009	V11P25FW503-	VR603	
	2-6	KU- 9360 -9	AC In/Out unit			46	211 9135 000	V1420P25FB503K	VR601,602	
	2-7	KU- 9360 -3	CD & Regulator unit			47	204 8519 001	4P pin jack	JK501,502	
	2-8	KU- 9360 -2	Tuner unit			48	205 0847 004	3P ant.term (PAL/F)	JK101	
	2-9	KU- 9360 -7	Input & Buffer unit			49	269 0170 005	TOTX178	IC207	
	3	146 9366 300	Inner panel ass'y	Gold model	1	△ 50	EXTENSIVE STANSFELL	1PAC outlet (E2)	AC001	25.40
	3						5、14世纪中代代表了400		这一种的一种,	D1793
		146 9366 313	Inner panel ass'y	Black model	1	△ 51	206 1075 014	The state of the s	F001	1 36
	4	113 9345 208	7G button	Gold model	1	A 52	Save, s. on-dissibility control (000) and numbers	Fuse (2:5A)	F002	-
	_	113 9345 211	7G button	Black model	1	53	009 0109 018	29P FFC cable		
	5	113 9348 001	Power knob ass'y	Gold model	1	54	009 9058 021	23P FFC cable		
		113 1654 117	Power knob ass'y	Black model	1	55	204 8421 005	Mini jack	JK801	Di di
	6	113 9346 100	Open/close button	Gold model	1	№ 56		Power trans (E2)		200
		113 9346 016	Open/close button	Black model	1	57	205 0484 001	8P sp terminal (E2)	JK701	DE S
	7	144 9255 101	Trap door	Gold model	1	▲ 58	206 2108 003	AC cord with plug		200
		144 9255 114	Trap door	Black model	1					_
	8	435 0113 009	Latch (Y3Y18)		1	SCREWS			I	-
	9	401 0175 112	Door hinge (L)		1	101	473 7505 007	Tapping screw 2.6×8 (P)		
,	10	401 0176 111	Door hinge (R)		1	102	473 7002 005	Tapping screw 3×6 (S)		
	11	113 9323 026	Push knob (SP)		3	103	473 7004 016	Tapping screw 4×6 (S)		
	12	144 9254 209	Front panel	Gold model	1	104	473 7002 034	Tapping screw 3×6 (S)	Black	
		144 9254 212	Front panel	Black model	1	105	477 0064 107	Fixing screw 3×10	Black	
	13	411 9146 301	Chassis		1	106	473 7508 046	Tapping screw 3×16 (P)	Black	
	14	104 0273 210	Foot		4	107	473 7015 018	Tapping screw 3×8 (S)	Black	
	15	461 0655 003	Rubber pad	*	4	108	473 7500 015	Tapping screw 3×8 (P)		
1	16	443 9015 002	P.W.B spacer		3	109	473 8007 038	Cup screw 3×14		
	17	411 9147 300	Sub chassis		1	110	473 4801 005	Tapping screw 4×8	Gold model	
	18	412 9525 103	Stay		1		473 7007 013	Tapping screw 4×10 (S)	Black model	
	19	415 9106 000	Insulator		1					
2	20	337 0040 001	CDM14-5BD10		1	PACKING	& ACCESSORIE	S		_
:	21	414 9199 302	Shield bracket		1		505 0283 018	:Poly cover		
:	22	412 1979 029	P.C.B holder		2		511 9466 006	Operating instructions		
:	23	412 2814 002	Card spacer (L=8)		4		399 9054 009	Remoto control unit	RC-814	
:	24	105 9276 305	Back panel	Europe model	1		395 0023 008	:FM antenna ass'y		
		105 9276 318	Back panel	U.K. model	1		231 1914 003	Loop antenna		
:	25	146 9363 002	Loader panel	Gold model	1	A T	206 2108 003	AC connector with plug	Europe models	EX.
		146 9363 015	Loader panel	Black model	1	A	"一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	AC cord with connector	U-K model	Prisase
:	26	417 9097 209	Radiator		1	LANGE PORTOGORIA CONTROLOGICA	503 9308 105	Cushion ass'y		, Ball
2	27	441 9053 301	Radiator bracket		1		505 0131 050	Cabinet cover		
	28	461 9085 001	Spacer		1		501 9297 003	Carton case		
	29	122 0187 100			1		513 9111 001	Color label(gold)	Europe model	
	30	112 0691 149		Gold model	1				_2.000 ///000	
,	-		Volume knob ass'y	Black model	1					
,	31	112 0645 195		DIACK MODEL						
	32	102 9053 105		Gold made!	3					
,		102 0000 100	10b cover	Gold model	1					

MD UNIT

В

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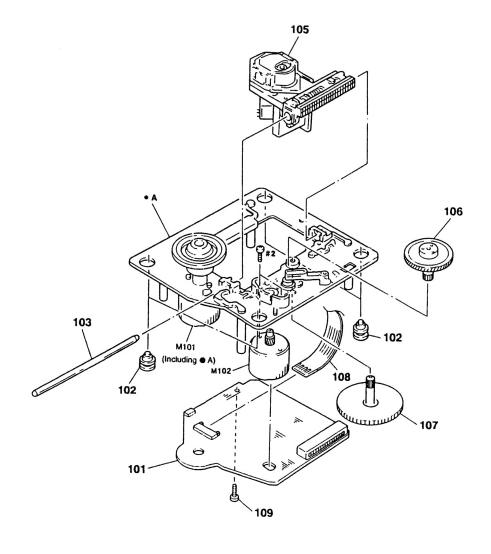


PARTS LIST OF CD MECHANISM UNIT

Ref No.	Part No.	Part Name	Remarks
51	S16 4572 111	Loading P.W.B. Unit Ass'y	See page 28, 29
52	S49 3311 101	Chassis(MD)	
53	S49 1758 321	Yoke Bracket	
54	S49 2764 901	Belt	
55	S49 3310 901	Cam	
56	S49 2765 101	Pulley(S)	
57	S49 2762 801	Gear(C)	
58	S49 3310 701	Gear(PL)	

Ref No.	Part No.	Part Name	Remarks
59	S49 3311 201	Disk Table	
60	S49 3311 001	Holder(MG)	
61	S14 5253 811	Magnet	
62	S49 3313 401	Screw	
63	S49 4850 301	Spring(BU)	
64	S49 3312 901	Holder(BU)	
M151	SA4 6043 63A	Motor(L)Ass'y	
#1	471 3201 024	2.6×4 CBS	

OPTICAL PICK-UP UNIT



PARTS LIST OF OPTICAL PICK-UP UNIT

R	ef No.	Part No.	Part Name	Remarks	Ref No.	Part No.	Part Name	Remarks
•	101	SA4 6494 32A	CD Mechanism P.W.B. Unit Assly	See page 28, 29	108	S15 7500 111	Flat Cable	
	102	S49 3312 601	Insulator Rubber		M101	SX4 9175 233	Motor(Spindle)Ass'y	
	103	S49 1756 501	Sled Shaft		M102	SX4 9175 041	Motor(Sled)Ass'y	
	105	499 0191 009	Optical PU KSS240A		109	S49 5162 001	Screw	
	106	S49 1756 701	Gear(M)		#2	471 1810 019	2×3 CPS	
	107	S49 1756 401	Gear(P)					